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VOL. IV DECEMBER, 1907 NO. 5

BULLETIN OF BROWN UNIVERSITY

THE CATALOGUE
1907-1908

PROVIDENCE
PUBLISHED BY THE UNIVERSITY
[APRIL, MAY, JUNE, OCTOBER, DECEMBER, & FEBRUARY]

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Correspondence addressed simply to Brown University, Providence, Rhode Island, may be expected to reach the proper department, but in order to avoid delay correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Corporation, and all correspondence bearing upon the general interests of the University, should be addressed to the President.

Requests for the Annual Catalogue and other publications, and inquiries relating to the admission of Undergraduate students, should be addressed to the Registrar.

Inquiries concerning scholarships and other matters pertaining to Undergraduate students should be addressed to the Dean of the University.

Inquiries in regard to the Graduate Department should be addressed to the Dean of the Graduate Department.

Inquiries concerning the Women's College should be addressed to the Dean of the Women's College, Pembroke Hall.

Inquiries or information concerning Alumni should be sent to the Keeper of Graduate Records, Brown University Library.

THE CATALOGUE
OF
BROWN UNIVERSITY

ONE HUNDRED AND FORTY-FOURTH YEAR

1907–1908

PROVIDENCE, RHODE ISLAND
PUBLISHED BY THE UNIVERSITY
1907

D. B. UPDIKE, THE MERRYMOUNT PRESS, BOSTON

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CALENDAR 1907–1908

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THE UNIVERSITY CALENDAR 1907–1908

1907

September 4.	*Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
September 19–23.	*Thursday, Friday, Saturday, and Monday.* Examinations for admission to the Freshman class and to advanced standing.
September 24.	*Tuesday.* Last day for registration and enrolment of Undergraduate students.
September 25.	*Wednesday.* Academic Year begins (fourth Wednesday in September). Last day for registration of Graduate students.
October 5.	*Saturday.* Examination in Greek for the President's Premiums.
October 9.	*Wednesday.* Examination in Latin for the President's Premiums.
October 12.	*Saturday.* Examination in Mathematics for the Hartshorn Premiums.
October 16.	*Wednesday.* Examination in French for the President's Premiums.
November 28, 29.	*Thursday and Friday.* Thanksgiving Recess.
December 13–21.	*Friday to Saturday.* Term examinations.
Dec. 23, 1907 to January 2, 1908.	*Monday to Thursday.* Christmas Recess.

1908

January 2.	*Thursday.* Last day for enrolment of Undergraduate students.
January 3.	*Friday.* Second Term begins.
January 14.	*Tuesday.* Last day for receiving essays submitted in competition for the Class of 1880 Prize.
January 16.	*Thursday.* Class of 1880 Prize Debate.
February 1.	*Saturday.* Last day for entering for the Carpenter Prizes.

February 22.	*Saturday.* Washington's Birthday. No University exercises.
March 10–18.	*Tuesday to Wednesday.* Term examinations.
March 19–25.	*Thursday to Wednesday.* Spring Recess.
March 25.	*Wednesday.* Last day for enrolment of Undergraduate students.
March 26.	*Thursday.* Third Term begins.
April 1.	*Wednesday.* Last day for receiving applications for examination for the degree of Doctor of Philosophy, or of Master of Arts *in absentia.*
April 2.	*Thursday.* Last day for receiving essays submitted in competition for the Gaston Prize Medal.
April 9.	*Thursday.* Last day for receiving essays submitted in competition for the Mohonk Prize.
April 23.	*Thursday.* Mohonk Prize Debate.
April 30.	*Thursday.* Last day for receiving theses of candidates for the degree of Doctor of Philosophy.
May 1.	*Friday.* Last day for receiving applications for the Grand Army of the Republic Fellowship. Last day for receiving Commencement orations.
May 7.	*Thursday.* Carpenter Prize Speaking Contest.
May 14.	*Thursday.* Gaston Prize Medal Competition.
May 21.	*Thursday.* Hicks Prize Debate.
May 30.	*Saturday.* Memorial Day. No University exercises.
June 1.	*Monday.* Last day for examinations for advanced degrees.
June 4–12.	*Thursday to Friday.* Term examinations.
June 14.	*Sunday.* Baccalaureate Sermon, First Baptist Meeting House, 4.30 p.m.
June 15.	*Monday.* Class Day.
June 16.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, Administration Building, 9.30 a.m. Ivy Day, Pembroke Hall, 10.30 a.m.

JUNE 16.	*Tuesday.* Annual Meeting of the Associated Alumni, Manning Hall, 2.30 p.m. Oration before the Associated Alumni, Sayles Memorial Hall, 4 p.m.
JUNE 17.	*Wednesday.* ONE HUNDRED AND FORTIETH ANNUAL COMMENCEMENT (third Wednesday in June), First Baptist Meeting House, 10 a.m.
JUNE 18.	*Thursday.* Meeting of the Corporation.
JUNE 18 to SEPT. 23.	SUMMER VACATION.
SEPTEMBER 2.	*Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
SEPT. 17–22.	*Thursday, Friday, Saturday, Monday, and Tuesday.* Examinations for admission to the Freshman class and to advanced standing.
SEPTEMBER 21, 22.	*Monday and Tuesday.* Registration of new students.
SEPTEMBER 22.	*Tuesday.* Enrolment of Undergraduate students previously in residence.
SEPTEMBER 23.	*Wednesday.* ACADEMIC YEAR BEGINS (fourth Wednesday in September). Last day for registration of Graduate students.

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ON THE CARPENTER PRIZE FUND

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The President, Mr. Koopman, Professors Dealey and Damon, Mr. Guild.

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HENRY ENGLANDER, A.M. — 181 Reynolds Avenue
Assistant in Biblical Literature and History

EDGAR SHEFFIELD BRIGHTMAN, A.B. — 29 Caswell Hall
Assistant in Philosophy

WALTER EDGAR WOODBURY, A.B. — 29 Caswell Hall
Assistant in Philosophy

FREDERICK EUGENE BANFIELD, Jr., Ph.B. — 6 Brunonia Hall
Assistant in Mechanical Engineering

EVERETT HAROLD SWETT, Ph.B., Sc.B. — 78 Woodbine Street
Assistant in Civil Engineering

ROBERT FRANKLIN FIELD, A.M. — 25 Wilson Street
Assistant in Physics

OSCAR WILLIAM RACKLE, Sc.B. — 94 Angell Street
Assistant in Civil Engineering

ROBERT BRADFORD JONES, A.B. — 30 Caswell Hall
Assistant in English

STANLEY BATES HARKNESS, A.B. — 92 Williams Street
Assistant in English

DAVID WILKINSON SMITH, A.M. — 8 Hope College
Assistant in Greek

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B. — 21 University Hall
Assistant in French

FREDERICK GEORGE KEYES, Sc.M. — 33 Hope College
Assistant in Chemistry

WALTER CLIFTON SLADE, Ph.B. — 76 Comstock Avenue
Assistant in Chemistry

HARVEY McLEOD KELLEY, A.B. — 4 Brunonia Hall
Assistant in Public Speaking

JAY PERKINS, M.D. — 106 Waterman Street
Demonstrator in Anatomy

THERON CLARK, A.B. — 152 Congdon Street
Assistant Registrar

EMMA BRADFORD STANTON, A.M. — Bristol
Registrar of the Women's College

HENRY DEWEES CADY — Warren
Instructor in Shop Practice

EDWIN AYLSWORTH BURLINGAME — 359 Brook Street
Superintendent of Grounds and Buildings

GEORGE ARNOLD MATTESON, A.B., M.D. — 112 Prospect Street
Physician to the University

JOHN MILTON BURNHAM, A.M. — 63 Elmwood Avenue
Assistant Librarian

EARL NORTHUP MANCHESTER, A.B. — 66 Meeting Street
Reference Librarian and Keeper of Graduate Records

JESSIE MAY DOUGLASS, A.B. — 46 Olive Street
Cataloguer

SARAH GRIDLEY ROSS, A.B. — 117 Howell Street
Assistant Cataloguer

WINIFRED SIMPSON, A.B. — 117 Howell Street
Assistant Cataloguer

MAUD EVELYN CLARKE COVELL, A.B. — Warren
Assistant Librarian of the John Carter Brown Library

GENE WILDER WARE, A.B. — 10 Shepard Street
Organist and Director of Chapel Music

CLARENCE SAUNDERS BRIGHAM, A.B. — 95 Waterman Street
Archivist

JOHN EDWARDS — 210 Doyle Avenue
Assistant in the Ladd Observatory

STANDING COMMITTEES OF THE FACULTY

ON REGISTRATION AND ATTENDANCE

Dean Meiklejohn, Professors Upton, Randall, Delabarre, and Fowler, Dean King, Mr. Guild.

ON THE CURRICULUM

Professors Poland, Gardner, Randall, Bronson, Everett, Allinson, Hill, Mead, Meiklejohn, MacDonald, and von Klenze, Mr. Guild.

ON STUDENT ORGANIZATIONS

Professors Delabarre, Langdon, Hill, Meiklejohn, Blanchard, and Marvel.

ON STUDENT ADVISERS

Professors Allinson, Greene, Crosby, and Kirk.

OFFICE HOURS

PRESIDENT: William Herbert Perry Faunce, A.M., D.D., LL.D.
7 Administration Building: *11.30 a.m. to 12.30 p.m., except Mondays and Saturdays.*

DEAN OF THE UNIVERSITY: Alexander Meiklejohn, Ph.D.
5 Administration Building: *1.30 to 2.30 p.m., except Saturdays.*

REGISTRAR, AND SECRETARY OF THE FACULTY
Frederick Taft Guild, A.M.
4 Administration Building: *8.30 a.m. to 4 p.m.; Saturdays to 1 p.m.*

DEAN OF THE GRADUATE DEPARTMENT: Carl Barus, Ph.D.
5 Wilson Hall: *12.20 to 1.20 and 3.20 to 4.20 p.m.*

DEAN OF THE WOMEN'S COLLEGE: Lida Shaw King, A.M.
Pembroke Hall, Meeting Street: *10.15 to 11.25 a.m. Mondays, Wednesdays, and Fridays; 9.15 to 10.25 a.m. Tuesdays and Thursdays.*

REGISTRAR OF THE WOMEN'S COLLEGE
Emma Bradford Stanton, A.M.
Pembroke Hall, Meeting Street: *9 a.m. to 1.15 p.m., 2.15 to 4 p.m.; Saturdays 9.15 a.m. to 1 p.m.*

LIBRARIAN: Harry Lyman Koopman, A.M.
The Library: *9 to 10 a.m., 3 to 4 p.m.*

SECRETARY OF THE TEACHERS' BUREAU
Walter Ballou Jacobs, A.M.
10 Administration Building: *1.30 p.m. Mondays, Wednesdays, and Fridays; 10 a.m. Saturdays.*

SUPERINTENDENT OF GROUNDS AND BUILDINGS
Edwin Aylsworth Burlingame
1 University Hall: *8 to 9 a.m., 1.15 to 2.15 p.m.*

KEEPER OF GRADUATE RECORDS
Earl Northup Manchester, A.B.
University Library: *9 a.m. to 12 m., 2.30 to 4.30 p.m.; Fridays 9 a.m to 12 m.*

HISTORY OF BROWN UNIVERSITY

A GENERATION before the establishment of any institution of higher education in Rhode Island, Dean (afterwards Bishop) Berkeley, in pursuance of his cherished design of planting a Christian college in America, chose this colony as his place of residence. Here, at Newport or in its vicinity, he lived for nearly three years, from 1729 to 1731. At the close of this period it became evident that the money which had been voted for the project by the House of Commons would not be paid, and Berkeley reluctantly abandoned his project and returned to England. Though he had no direct relation to the college afterwards established, yet he inspired an interest in higher education among the colonists and thus made easier the success of the later undertaking.

In 1762 the Philadelphia Baptist Association, in view of the disabilities attaching to Baptist students in most of the existing American colleges, welcomed a proposal offered by the Reverend Morgan Edwards, a clergyman of Welsh birth, at that time pastor of the First Baptist Church in Philadelphia, to found in Rhode Island a college that should be under the control of their own denomination. James Manning, who had just been graduated from Princeton, was appointed by the Association as its agent to establish "a seminary of polite literature subject to the government of the Baptists."

In deciding upon the location of the new college, a canvass of the colonies had shown the advantages to be clearly on the side of Rhode Island, which recognized absolute religious liberty, and was, moreover, a Baptist colony in origin and popular attachment. There was no rival institution in the field; and the important cities of Newport and Providence, the former being the second city in New England, furnished an encouraging prospect of future support. Accordingly, in 1764, the friends of the movement obtained from the General Assembly the charter which still remains in force. Although, under the rules of the charter, the President and a majority of both the Fellows and the Trustees must be Baptists, the three important positions of Chancellor, Secretary, and Treasurer are without denominational restriction, and all religious tests and sectarian instruction are strictly prohibited. The institution was known during the first forty years of its existence as Rhode Island College.

As the College was at the beginning without funds, and only a scanty return could be expected from students' fees, it was necessary that the president should support himself and his family by some other means. The founding of a Baptist church in Warren and the call of Mr. Manning to its pastorate offered a solution of the difficulty; and hither Mr. Manning brought his family in the spring of 1764. His first act towards the establishment of a college was the opening of a Latin school. This preparatory school was later removed with the College to Providence, where it flourished for a hundred and forty years under the name of the University Grammar School. At the second meeting of the Corporation, September 4, 1765, Mr. Manning was formally appointed "president of the College, professor of languages and other branches of learning;" the first student had been matriculated the day before. In the following year David Howell was appointed tutor, but no other addition was made to the Faculty until 1774. In 1769 the first class (of seven members) was graduated at Warren. This town had not generally been regarded as the permanent seat of the College, and the necessity which now arose of erecting a college building compelled a final choice of location. After a spirited contest for the honor among the leading towns of the colony, the choice fell upon Providence. Here in 1770 the first college building, the present University Hall, modeled after Nassau Hall at Princeton, and a house for the president were both built on the college grounds, the cost being covered by subscriptions, chiefly from residents of Providence.

In 1771 President Manning was called to the pastorate of the First Baptist Church in Providence; he served the church in this capacity, in addition to his college duties, from that date until the close of his life. In December, 1776, the work of the College was interrupted by the Revolutionary War, and it was not resumed until the fall of 1782, University Hall being used meanwhile as a barrack and hospital for the combined American and French troops. Upon the reorganization of the College important additions were made to the library and the philosophical apparatus. The first college funds, amounting to $4500, were collected in England and Ireland by the Reverend Morgan Edwards in 1767–8. In the next two years the Reverend Hezekiah Smith obtained subscriptions amounting to $2500 in South Carolina and Georgia. The former contribution was made a permanent fund; the latter was expended in the construc-

tion of the college buildings. Further gifts were received for a time from the Philadelphia, Charleston, and Warren Baptist Associations, but they appear to have ceased with the outbreak of the Revolutionary War. In 1791, after twenty-nine years of service as founder and director of Rhode Island College, President Manning died. The College had become firmly established, with a graduate roll of one hundred and forty-nine; the last graduating class, that of 1790, had numbered twenty-two. At the time of his death the Faculty consisted of the president, four professors, and two tutors. The discipline during this period had been strict and paternal, the officers of instruction living under the same roof with the students and making frequent visits of inspection to their rooms. President Manning at first taught all the branches studied, but was designated professor of languages, afterwards of moral philosophy. David Howell, his assistant, taught mathematics and natural philosophy, and is said to have taught also French, German, and Hebrew. He was appointed professor of natural philosophy in 1769, and of law in 1790, but never taught the latter subject. Benjamin Waterhouse was appointed professor of natural history in 1784; and Benjamin West, professor of mathematics and astronomy in 1786.

The successor of President Manning was the Reverend Jonathan Maxcy, a graduate in the class of 1787, who had been professor of divinity 1791–2. He served from 1792 until 1802, when he resigned his office to accept the presidency of Union College. During the last year of his administration at Rhode Island College a class numbering twenty-eight was graduated.

The third president of the College, the Reverend Asa Messer, a graduate in the class of 1790, who had served as professor of learned languages 1796–9, and of mathematics and natural philosophy 1799–1802, directed the affairs of the institution from 1802 until his resignation in 1826. During his presidency of twenty-four years the College was greatly expanded. A class numbering forty-eight was graduated in 1825, the Faculty in that year consisting of the president, nine professors, and two tutors. A medical school was established, which existed from 1811 until 1828 and sent out eighty-seven graduates. The special professorships created for the medical school were: materia medica and botany, 1811; anatomy and surgery, 1811; chemistry, 1811; theory and practice of medicine, 1815. A professor of moral philosophy and metaphysics was appointed in 1811; one of oratory and belles-lettres in 1815; and one of the Latin and

Greek languages and literature in 1825. In 1826 the permanent funds of the University amounted to $31,300.

In 1792 Nicholas Brown, a graduate in the class of 1786, gave $500 with which to purchase law books for the Library. In 1804 he endowed a professorship of oratory and belles-lettres. In the same year the name of the institution was changed in his honor to Brown University. In 1822 he built Hope College at his own expense, in 1834 Manning Hall, and in 1840 the second president's house. The last-named building has been used since 1899 as a refectory. The total value of Mr. Brown's various gifts to the University was not less than $160,000. Mr. Brown also served the University in a most efficient way as treasurer 1796–1825. He was trustee 1791–1825, and fellow from 1825 until his death in 1841.

The fourth president, the Reverend Francis Wayland, entered upon his official duties in 1827. He at once raised the standard of scholarship and gradually increased the scope of the instruction. He finally accomplished an entire reorganization of the University on the basis of the elective principle. In accordance with this "New System," the bachelor's degree was given for a three years' course and the master's degree for a four years' course. Graduate study and special study were both encouraged; and the sciences, in accordance with the spirit of the charter, were made prominent in the curriculum. This system was not put into operation until 1850, and was fully in force only until his retirement five years later. The increase in the scope of the curriculum during President Wayland's administration is clearly shown in the following list of subjects to which professors or instructors were assigned at the dates annexed: chemistry, physiology, and geology, 1834; moral and intellectual philosophy, 1834; belles-lettres, 1835; rhetoric, 1837; Hebrew literature, 1838; modern languages and literature, 1843; Greek, 1843; Latin, 1844; French, 1844; history and political economy, 1850; natural philosophy and civil engineering, 1850; chemistry applied to the arts, 1850; rhetoric and English literature, 1851; didactics (*i. e.*, pedagogy), 1851; analytical chemistry, 1854. The influence of President Wayland was felt, not in an increase of the number of students, but in an elevation of the intellectual and moral tone of the institution. Discipline, which had grown lax, was strictly enforced. During his administration the college grounds were laid out, and the Library was placed on a sound financial basis. Rhode Island Hall was erected in 1840 from sub-

scriptions by Rhode Island men and women. The permanent funds were increased to $200,000. Dr. Wayland resigned the presidency in 1855, having won for the University, by his fame as a writer, thinker, and educational reformer, an enviable distinction both at home and abroad.

The fifth president of the University, the Reverend Barnas Sears, a graduate in the class of 1825, held office from 1855 until 1867, when he resigned the presidency to become general agent of the Peabody Education Fund. During his incumbency the only new subject added to the curriculum was physical geography, in 1864. Although the term of President Sears covered the financial crisis of 1857 and the Civil War, a notable increase was made both in the funds and in the number of students. A system of scholarships was established, and over $220,000 was collected in subscriptions. The Chemical Laboratory was built in 1862. In the last class that entered under President Sears seventy-three students were enrolled. Three hundred graduates and students of Brown entered the Union service, 1861–5. Of these twenty-one laid down their lives.

The Reverend Alexis Caswell, a graduate in the class of 1822, was the sixth president of the University, his term covering the years 1868–72. Under his administration the department of physics was organized, and the endowment was increased from $365,000 to a sum exceeding $550,000.

Upon the resignation of Dr. Caswell, the Reverend Ezekiel Gilman Robinson, a graduate in the class of 1838, became president. Dr. Robinson's presidency extended over the seventeen years 1872–1889. This period was marked by a further increase in the attendance, the class of 1889 being graduated with a membership of fifty-six. The following subjects were added to the curriculum, or were emphasized by the appointment of separate instructors: special branches of agriculture, 1872; zoölogy and agriculture, 1874; physiology, 1874; botany, 1877; zoölogy and geology, 1878; elocution, 1880; astronomy, 1884; logic, 1886; history, 1888; political economy, 1888. The funds were increased to $980,000, and important additions were made to the buildings. Rhode Island Hall was enlarged in 1875. The Library, the gift of John Carter Brown, of the class of 1816, was built in 1878, and Slater Hall, the gift of Horatio Nelson Slater, in 1879. Sayles Hall, the gift of William Francis Sayles, a memorial to his son, William Clark Sayles, a member of the class of 1878, was built in 1881. University Hall, which had been renovated

in 1850, was again renovated in 1883. Dr. Robinson recognized the fact that a great opportunity for a university existed at Brown, and, though he was not able fully to realize his purposes, he prepared the way for the great enlargement of the institution under his successor. Besides the addition of various courses, a beginning was made in systematic graduate instruction. Dr. Robinson resigned the presidency in 1889.

The eighth president of the University was the Reverend Elisha Benjamin Andrews, a graduate in the class of 1870. With his accession in 1889 the modern life of the University properly begins. In the year preceding his presidency three graduate students were enrolled; in the last year of his term of service the graduate students numbered 101, the total number of students for the same years being, respectively, 268 and 860. The officers of instruction for the corresponding years increased in number from twenty-two to seventy-three. All the old departments were expanded, and the number of departments was increased from sixteen in 1889–90 to twenty-five in 1897–8. The department of philosophy was enlarged by the addition of psychology and pedagogy. American and European history were assigned to separate professors, and political economy was made a department. The departments of Greek literature and history, Roman literature and history, English literature and language, Germanic languages and literatures, and Romance languages and literatures were reorganized and extended. Rhetoric and oratory were made an independent department. The departments of mathematics, mechanical engineering, astronomy, physics (including electrical engineering), chemistry, zoölogy, geology, and anthropology, and botany were extended in scope and thoroughness. New departments were formed for the subjects of social and political science including law, fine arts including the history of art and music, Indo-European philology, Biblical literature and history including the Semitic languages and New Testament Greek, mechanical drawing, civil engineering, comparative anatomy, military science and tactics, and bibliography.

The museum of fine arts was founded in 1889, and that of anthropology in 1891. The funds were increased to $1,125,685, and important additions were made to the buildings and grounds. In 1891 Hope College was renovated; Wilson Hall, the bequest of George Francis Wilson, was built; the Ladd Observatory was presented to the University by the Honorable Herbert W. Ladd; and the Lyman

Gymnasium, named in honor of its principal donor, was erected. Maxcy Hall was built in 1895. Three buildings, known as the Howell, Messer, and Brown Street houses were also secured for dormitory purposes. The old playground of the University, now known as Lincoln Field, was graded and fitted up for ball-games and other athletic purposes in 1889. In 1898 a new athletic field was laid out on Camp Street, a mile and a half from the University. In 1891 the Grand Army of the Republic Fellowship Fund of $10,000 was given to the University by the Rhode Island Department of that organization.

The Women's College was founded in October, 1891. At first only the privileges of University examinations and certificates of proficiency were granted. In June, 1892, all the College and University degrees and the graduate courses were opened to women. In November, 1897, the institution was accepted by the Corporation and officially designated the Women's College in Brown University. The immediate charge of this department, as of all others in the University, is in the hands of the Corporation. All instruction is given by members of the University Faculty. Pembroke Hall, which was built by the Rhode Island Society for the Collegiate Education of Women, was formally transferred to the University in October, 1897, and was accepted as the recitation hall of the Women's College.

In 1898 Dr. Andrews resigned the presidency to become Superintendent of Schools in Chicago. Dr. Benjamin Franklin Clarke, the senior member of the Faculty, who had served as president *pro tempore* during the absence of Dr. Andrews in Europe in 1896–7, was appointed president *ad interim*, and served during the academic year 1898–9.

The ninth president of the University is the Reverend William Herbert Perry Faunce, a graduate in the class of 1880, who entered upon his official duties on Commencement Day, 1899. At Commencement, 1900, announcement was made of an addition of over a million dollars to the endowment of the University. To this was added a year later a second million, including the endowment of the John Carter Brown Library. In 1900 the Slater Memorial Homestead was presented by Mrs. Horatio N. Slater, as a home for the students of the Women's College. In 1901 the president's house was erected at the corner of Hope and Manning streets. In 1902 the Van Wickle Administration Building was completed, this structure as well as the gates opposite being the bequest of Augustus Stout Van Wickle, of

the class of 1876. In 1904 Rockefeller Hall, the gift of John D. Rockefeller, was opened for the use of the Brown Union, a social organization of students and alumni which was formed in that year. In the same year the Engineering Building, on Lincoln Field, Caswell Hall, a dormitory fronting on Thayer Street, and the Colgate Hoyt swimming-pool, the gift of Colgate Hoyt, were erected, and a great organ, the gift of Lucian Sharpe, of the class of 1893, was placed in Sayles Hall. In 1904 the John Nicholas Brown Gate was built as a memorial to the late John Nicholas Brown by his widow. In the same year the Carrie Tower, a clock tower, erected by Paul Bajnotti, of Turin, to the memory of his wife, Carrie Mathilde Brown, was presented to the University. Since 1901 an iron fence with brick and stone posts has been built around the front and the middle campus, each section having been contributed by or in memory of some class. The classes of 1872, 1884, and 1887 have contributed gates. In the summer of 1905 the exterior of University Hall was restored to its original appearance at the expense of Marsden J. Perry. In 1906 the Gymnasium of the Women's College was erected by Mr. Frank A. Sayles as a memorial to his sister, Martha Fessenden Sayles. In 1907 the Marston Field House, the gift of Edgar L. Marston, Esq., of New York, was erected on Andrews Field. In the same year Mr. Stephen O. Metcalf gave a lot of land adjoining the Women's College and had the grounds laid out at his expense. In April, 1907, the funds of the University, exclusive of those pertaining to the John Carter Brown Library, amounted to $3,217,521.91.

The Library of the University dates from 1767, when the Reverend Morgan Edwards collected books for it in England. The collection was at first kept in University Hall. It was removed to Manning Hall upon the completion of that building in 1835, and in 1878 was transferred to the present building. In 1842 it contained ten thousand volumes; in 1878, forty-eight thousand. The present number, including the books in the twenty department libraries, but not including the John Carter Brown Library, is about one hundred and fifty thousand. The Providence Library Company, now the Athenaeum, the Library of the Rhode Island Historical Society, the State Law Library, and the State Library have been most valuable adjuncts to the University Library; and, since the opening of the Providence Public Library in 1878, members of the University have made constant use of its choice and readily available resources. The Library Fund, established under President Wayland, has been supplemented

by ten special funds, devoted to the departments of European history, United States history, mediaeval and church history, botany, the arts of design, biology, the classical languages and literatures, English literature, and American poetry. Gifts of one thousand dollars each have been made to the Library in recent years by the classes of 1872, 1884, 1885, 1886, 1887, and 1888. In 1884, by the will of the Honorable Henry B. Anthony, the Library came into possession of the Harris Collection of American Poetry numbering five thousand volumes, since increased to more than seven thousand. In 1901 there was presented to the University the John Carter Brown Library, the most complete collection in the world on the history of the two Americas down to the end of the eighteenth century; the sum of $500,000 was also given as an endowment and the sum of $150,000 for the erection of a building. The building was dedicated in May, 1904. In October, 1903, the University received by the gift of Marsden J. Perry the Sidney S. Rider Collection of manuscripts, books, and other material, forming a library of the first importance to students of the history of Rhode Island.

At the close of the one hundred and thirty-ninth Commencement of the University, in 1907, there were enrolled the names of 6,526 graduates,—6,106 men and 420 women. Of this number 5,762 had received the College or University first degree; 95, exclusive of the foregoing, had received advanced degrees; 69, not previously reckoned, had received the degree of Doctor of Medicine; 615 others had received honorary degrees. Of the entire number, 3,575, or fifty-four per cent, were living.

THE CHARTER OF BROWN UNIVERSITY‡

Date of the Charter

BY the Honorable the Governor and Company of the English Colony of Rhode Island and Providence Plantations in New England in America in General Assembly convened at East Greenwich within and for the Colony aforesaid on the last Monday in February One Thousand Seven Hundred and Sixty-four.

Preamble

Whereas Institutions for liberal Education are highly beneficial to Society by forming the rising Generation to Virtue, Knowledge, and useful Literature; and thus preserving in the Community a Succession of Men duly qualified for discharging the Offices of Life with Usefulness and Reputation; they have therefore justly merited and received the the Attention and Encouragement of every wise and well regulated State: And whereas a Public School or Seminary, erected for that Purpose within this Colony to which the Youth may freely resort for Education in the vernacular and learned Languages, and in the liberal Arts and Sciences would be for the general Advantage and Honor of the Government: And whereas Daniel Jenckes Esq; Nicholas Tillinghast Esq; Nicholas Gardiner Esq; Col. Josias Lyndon, Col. Elisha Reynolds, Peleg Thurston Esq; Simon Pease Esq; John Tillinghast Esq; George Hazard Esq; Col. Job Bennet, Nicholas Easton Esq; Arthur Fenner Esq; Mr. Ezekiel Gardiner, Mr. John Waterman, Mr. James Barker Junr, Mr. John Holmes, Solomon Drown Esq; Mr. Samuel Winsor, Mr. Joseph Sheldon, Charles Rhodes Esq; Mr. Nicholas Brown, Col, Barzillai Richmond, Mr. John Brown, Mr. Gideon Hoxsey, Mr. Thomas Eyres, Mr. Thomas Potter, Jun. Mr. Peleg Barker, Mr. Edward Thurston, Mr. William Redwood, Joseph Clarke Esq; Mr. John G Wanton, and Mr. Thomas Robinson with many other Persons, appear as Undertakers in the valuable Design: And thereupon a Petition hath been preferred to this Assembly, praying that full Liberty and Power may be granted unto such of them, with others, as are hereafter

Petition of the Undertakers

‡ *With the exception of the marginal analysis and the notes, this reprint is an exact copy of the original charter engrossed on parchment, preserved in the archives of the University.*

mentioned, to found, endow, order, and govern a College or University, within this Colony; and that, for the more effectual Execution of this Design, they may be incorporated into one Body Politic, to be known in the Law, with the Powers, Privileges, and Franchises, necessary for the Purpose aforesaid.

Now therefore know ye, That being willing to encourage and patronize such an honorable and useful Institution, we the said Governor and Company, in General Assembly convened, Do, for ourselves and our Successors, in and by Virtue of the Power and Authority, within the Jurisdiction of this Colony, to us by the Royal Charter granted, and committed, Enact, Grant, Constitute, Ordain, and Declare, And it is hereby Enacted, Granted, Constituted, Ordained and Declared, That the Hon. Stephen Hopkins Esq; the Hon. Joseph Wanton Jun. Esq; the Hon. Samuel Ward Esq; the Hon. William Ellery Esq; John Tillinghast Esq; Simon Pease Esq; James Honyman Esq; Nicholas Easton Esq; Nicholas Tillinghast Esq; Darius Sessions Esq; Joseph Harris Esq; Francis Willet Esq; William Logan Esq; Daniel Jenckes Esq; George Hazard Esq; Nicholas Brown Esq; Jeremiah Niles Esq; Joshua Babcock Esq; Mr. John G Wanton, the Rev. Edward Upham, the Rev. Jeremiah Condy, the Rev. Marmaduke Brown, the Rev. Gardner Thurston, the Rev. Ezra Stiles, the Rev. John Greaves, the Rev. John Maxson, the Rev. Samuel Winsor, the Rev. John Gano, the Rev. Morgan Edwards, the Rev. Isaac Eaton, the Rev. Samuel Stillman, the Rev. Samuel Jones, the Rev. James Manning, the Rev. Russel Mason, Col. Elisha Reynolds, Col. Josias Lyndon, Col. Job Bennet, Mr. Ephraim Bowen, Joshua Clarke Esq; Capt. Jonathan Slade, John Taylor Esq; Mr. Robert Shettell Jones, Azariah Dunham Esq; Mr. Edward Thurston Junr. Mr. Thomas Eyres, Mr. Thomas Haszard, and Mr. Peleg Barker, or such, or so many of them as shall, within Twelve Months from the Date hereof, accept of this Trust, and qualify themselves as herein after directed, and their Successors, shall be forever hereafter One Body Corporate and Politic, in Fact and Name, to be known in Law by the Name of Trustees and Fellows of the College, or University, in the English Colony of Rhode Island, and Providence Plantations in New England, in America; the Trustees and Fellows at any Time hereafter, giving such more particular Name to the Col-

Original Corporators

Name

lege, in Honor of the greatest and most distinguished Benefactor, ‡ or otherwise, as they shall think proper: Which Name, so given, shall, in all Acts, Instruments and Doings of said Body Politic, be superadded to their Corporate Name aforesaid, and become a Part of their legal Appellation by which it shall be forever known and distinguished: And that, by the same Name, they and their Successors, chosen by themselves as hereafter prescribed, shall, and may, have perpetual Succession; and shall, and may be Persons able and capable, in the Law, to sue and be sued, to plead and to be impleaded, to answer and to be answered unto, to defend and to be defended against, in all and singular Suits, Causes, Matters, Actions and Doings, of what Kind soever: And also to have, take, possess, purchase, acquire, or otherwise receive and hold Lands, Tenements, Hereditaments, Goods, Chattles, or other Estates; of all which they may, and shall stand and be seized, notwithstanding any Misnomer of the College, or the Corporation thereof; and by whatever Name, or however imperfectly the same shall be described in Gift, Bequests, and Assignments, provided the true Intent of the Assignor or Benefactor be evident:

Powers of Corporation

‡ *The following is an extract from the records of a meeting of the Corporation held September 6, 1804:*

A LETTER from Mr. Nicholas Brown, dated on this present day, having been read in the following words, to—wit:

Gentlemen: PROVIDENCE, *September 6, 1804.*

IT is known to you that I have long had an attachment to this institution as the place where my deceased brother Moses and myself received our education. This attachment derives additional strength from the recollection that my late honored Father was among the earliest, and most zealous patrons of the College; and is confirmed by my regard to the cause of Literature in general. Under these impressions I hereby make a donation of Five Thousand Dollars to Rhode Island College, to remain in perpetuity as a fund for the establishment of a Professorship of Oratory and Belles Lettres. The money will be paid next Commencement and is to be vested in such funds as the Corporation shall direct for its augumentation to a sufficiency in your judgment to produce a competent annual Salary for the within mentioned Professorship.

I am very respectfully, Gentlemen, with my best wishes for the prosperity of the College, your obedient friend,

NICHOLAS BROWN.

Honored Corporation of Rhode Island College.

IT is therefore voted: That the thanks of this Corporation be presented to Mr. Nicholas Brown for the aforesaid Donation, and it is further Voted, That this College be called and known in all future time by the Name of Brown University in Providence in the State of Rhode Island and Providence Plantations.

Also the same to grant, demise, aliene, lease, use, manage and improve according to the Tenor of the Donations, and to the Purposes, Trusts, and Uses to which they shall be seized thereof. And full Liberty, Power, and Authority is hereby granted unto the said Trustees and Fellows, and their Successors, to found a College, or University, within this Colony, for promoting the liberal Arts, and universal Literature: And with the Monies, Estates, and Revenues, of which they shall from Time to Time become legally seized as aforesaid, to endow the same: And erect the necessary Buildings and Edifices thereof on such Place within this Colony as they shall think convenient: And generally to regulate, order, and govern the same, appoint officers, and make Laws, as herein after prescribed; and hold, use, and enjoy all the Liberties, Privileges, Exemptions, Dignities and Immunities, enjoyed by any College, or University, whatever.

To found, endow and govern the College

And furthermore, That the said Trustees and Fellows, and their Successors, shall, and may, forever hereafter have a Publick Seal to use for all Causes, Matters, and Affairs, whatever, of them and their Successors, and the same Seal to alter, break, and make anew, from Time to Time, at their Will and Pleasure; which Seal shall always be deposited with the President, or Senior Fellow.

Seal

And furthermore, By the Authority aforesaid, It is hereby Enacted, Ordained and Declared, That it is now, and at all Times hereafter shall continue to be the unalterable Constitution of this College, or University, that the Corporation thereof shall consist of Two Branches, to wit: That of the Trustees, and that of the Fellowship, with distinct, separate, and respective Powers: And that the Number of the Trustees shall, and may be Thirty-six; of which Twenty-two shall forever be elected of the Denomination called Baptists, or Antipædobaptists; Five shall forever be elected of the Denomination called Friends, or Quakers; Four shall forever be elected of the Denomination called Congregationalists, and Five shall forever be elected of the Denomination called Episcopalians: And that the Succession in this Branch shall be forever chosen and filled up from the respective Denominations in this Proportion, and according to these Num-

Corporation with two branches

Number and denomination of the Trustees

bers; which are hereby fixed, and shall remain to Perpetuity immutably the same. And that the said Stephen Hopkins, Joseph Wanton, Samuel Ward, William Ellery, John Tillinghast, Simon Pease, James Honyman, Nicholas Easton, Nicholas Tillinghast, Darius Sessions, Joseph Harris, Francis Willett, Daniel Jenckes, George Hazard, Nicholas Brown, Jeremiah Niles, John G. Wanton, Joshua Clarke, Gardner Thurston, John Greaves, John Maxson, John Gano, Samuel Winsor, Isaac Eaton, Samuel Stillman, Russel Mason, Elisha Reynolds, Josias Lyndon, Job Bennet, Ephraim Bowen, John Taylor, Jonathan Slade, Robert Shettell Jones, Azariah Dunham, Edward Thurston Junr, and Peleg Barker, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared and established the first and present Trustees. And that the Number of the Fellows, inclusive of the President (who shall always be a Fellow) shall and may be Twelve; of which Eight shall be forever elected of the Denomination called Baptists, or Antipædobaptists; and the rest indifferently of any or all Denominations. And that the Rev. Edward Upham, the Rev. Jeremiah Condy, the Rev, Marmaduke Brown, the Rev. Morgan Edwards, the Rev, Ezra Stiles, the Rev, Samuel Jones, the Rev, James Manning, William Logan Esq; Joshua Babcock Esq; Mr Thomas Eyres, and Mr. Thomas Haszard, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared the first and present Fellows and Fellowship, to whom the President, when hereafter elected, (who shall forever be of the Denomination called Baptists or Antipædobaptists) shall be joined to compleat the Number.

Original Trustees

Number and denomination of the Fellows

Original Fellows

And furthermore, It is Declared and Ordained, That the Succession in both Branches, shall at all Times hereafter be filled up and supplied according to these Numbers, and this established and invariable Proportion from the respective Denominations by the separate Election of both Branches of this Corporation, which shall at all Times sit and act by separate and distinct Powers: And in general, in Order to the Validity and Consummation of all Acts, there shall be in the Exercise of their respective separate and distinct Powers, the joint Con-

Relative numbers always the same

Concurrent action of Trustees and Fellows

currence of the Trustees and Fellows, by their respective Majorities, except in adjudging and conferring the Academical Degrees, which shall forever belong, exclusively, to the Fellowship as a learned Faculty.

Degrees

And furthermore, It is Constituted, That the Instruction and immediate Government of the College shall forever be, and rest in the President and Fellows or Fellowship.

Government by the President and Fellows

And furthermore, It is Ordained, That there shall be a general Meeting of the Corporation on the First Wednesday in September annually, within the College Edifice, and until the same be built, at such Place as they shall appoint, to consult, advise and transact the Affairs of the College or University: At which or at any other Time, the Public Commencement may be held and celebrated. And that on any special Emergencies, the President, with any Two of the Fellows, or any Three of the Fellows, exclusive of the President, may convoke, and they are hereby empowered to convoke an Assembly of the Corporation on Twenty Days Notice: And that in all Meetings, the major Vote of those present of the Two Branches respectively, shall be deemed their respective Majorities aforesaid: Provided, That not less than Twelve of the Trustees, and Five of the Fellows, be a Quorum of their respective Branches. That the President, or, in his Absence, the Senior Fellow present, shall always be Moderator of the Fellows: That the Corporation, at their annual Meetings, once in Three Years, or oftener in Case of Death or Removal, shall, and may choose a Chancellor of the University, and Treasurer, from among the Trustees, and a Secretary from among the Fellows: That the Nomination of the Chancellor shall be in the Trustees, whose Office shall be only to preside as a Moderator of the Trustees; and that in his Absence, the Trustees shall choose a Moderator for the Time being, by the Name of Vice-Chancellor: and at any of their Meetings, duly formed as aforesaid, shall and may be elected a Trustee or Fellow, or Trustees, or Fellows, in the Room of those nominated in this

Annual Meeting

Special Meetings

Quorum

Moderator of Fellows

Chancellor, Treasurer and Secretary chosen triennially

Vice-Chancellor

Charter, who may refuse to accept, or in the Room of those who may die, resign, or be removed.

Vacancies to be filled

And furthermore, It is Enacted, Ordained and Declared, That this Corporation, at any of their Meetings, regularly convened as aforesaid, shall and may elect and appoint the President and Professor of Languages, and the several Parts of Literature: And upon the Demise of him or them, or either of them, their Resignation or Removal from his or their Office, for Misdemeanor, Incapacity, or Unfaithfulness, (for which he or they are hereby declared removable by this Corporation) others to elect and appoint in their Room and Stead: And at such Meeting, upon the Nomination of the Fellows, to elect and appoint Tutors, Stewards, Butlers, and all such other Officers usually appointed in Colleges or Universities, as they shall find necessary, and think fit to appoint for the promoting liberal Education, and the well ordering the Affairs of this College; and them or any of them, at their Discretion to remove, and substitute others in their Places. And in Case any President, Trustee or Fellow, shall see Cause to change his religious Denomination, the Corporation is hereby empowered to declare his or their Place or Places vacant, and may proceed to fill up it or them accordingly, as before directed, otherwise each Trustee and Fellow, not an Officer of Instruction, shall continue in his Office during Life, or until Resignation. And further, in Case either of the religious Denomnations should decline taking a Part in this Catholic, comprehensive and liberal Institution, the Trustees and Fellows shall and may compleat their Number, by electing from their respective Denominations, always preserving their respective Proportions herein before prescribed and determined: And all Elections shall be by Ballot or written Suffrage: And that a Quorum of Four Trustees & Three Fellows may transact any Business, excepting placing the College Edifice, Election of Trustees, President, Fellows and Professors, that is to say, so that their Acts shall be of Force and Validity until the next annual Meeting, and no longer.

Election of President and Professors

Appointment of other officers

Vacancy by change of denomination

Elections by ballot

Minor quorum

And it is further Enacted and Ordained by the Authority aforesaid, That each Trustee and Fellow, as well those nominated in

this Charter, as all that shall hereafter be duly elected, shall, previous to their acting in a corporate Capacity, take the Engagement of Allegiance prescribed by the Law of this Colony, to his Majesty King George the Third, His Heirs and Rightful Successors to the Crown of Great-Britain, which Engagement shall be administered to the present Trustees and Fellows, by the Governor or Deputy-Governor of this Colony, and to those from Time to Time hereafter elected by their respective Moderators, who are hereby empowered to administer the same.‡

Engagement

And still more clearly to define and ascertain the respective Powers of the Two Branches, on making and enacting Laws, It is further Ordained and Declared, That the Fellowship shall have Power, and are hereby empowered from Time to Time, and at all Times hereafter, to make, enact and publish all such Laws, Statutes, Regulations and Ordinances, with Penalties, as to them shall seem meet, for the successful Instruction and Goverment of said College or University, not contrary to the Spirit, Extent, true Meaning and Intention of the Acts of the British Parliament, or the Laws of this Colony; and the same Laws, Statutes and Ordinances to repeal: Which Laws, and the Repeals thereof, shall be laid before the Trustees, and with their Approbation shall be of Force and Validity, but not otherwise. And further the Trustees and Fellows, at their Meetings aforesaid, shall ascertain the Salaries of the respective Officers, and order the Monies assessed on the Students for Tuition, Fines and incidental Expenses, to be collected by the Steward, or such other Officer as they shall appoint to collect the same; and the same with their Revenues, and other College Estates in the Hands of the Treasurer, to appropriate in discharging Salaries and other College Debts: And the College Accounts shall be annually auditted and adjusted in the Meeting of the Corporation.

Laws of the College

Salaries of officers

Audit of accounts

And furthermore, It is hereby Enacted and Declared, That

‡ *September 4, 1782, the Corporation by vote omitted from the engagement the acknowledgment of allegiance to the British crown. The form of engagement has since been modified at various times; the present form is as follows: You* [*person's name*] *being elected a member of this Corporation to the place of* [*Fellow or Trustee*] *do solemnly engage true allegiance to bear to the United States of America, and faithfully to discharge the duties of your present appointment: And this engagement you make and give on the peril of the penalty of perjury.*

into this liberal and catholic Institution shall never be admitted any religious Tests: But on the contrary, all the Members hereof shall forever enjoy full, free, absolute, and uninterrupted Liberty of Conscience: And that the Places of Professors, Tutors, and all other Officers, the President alone excepted, shall be free and open for all Denominations of Protestants: And that Youth of all religious Denominations shall and may be freely admitted to the equal Advantages, Emoluments and Honors of the College or University; and shall receive a like, fair, generous, and equal Treatment during their Residence therein, they conducting themselves peaceably, and conforming to the Laws and Statutes thereof. And that the public Teaching shall, in general, respect the Sciences; and that the Sectarian Differences of Opinions, shall not make any Part of the public and classical Instruction: Although all religious Controversies may be studied freely, examined and explained by the President, Professors, and Tutors, in a personal, separate and distinct Manner, to the Youth of any or each Denomination: And above all, a constant Regard be paid to, and effectual Care taken of, the Morals of the College.

No religious tests

And furthermore, for the Honor and Encouragement of Literature, we Constitute and Declare, the Fellowship aforesaid, a Learned Faculty; and do hereby give, grant unto, and invest them, and their Successors, with full Power and Authority, and they are hereby authorized and empowered, by their President, and in his Absence by the Senior Fellow, or One of the Fellows appointed by themselves at the anniversary Commencement, or at any other Times, and at all Times hereafter, to admit to, and confer any and all the learned Degrees, which can or ought to be given and conferred in any of the Colleges or Universities in America; or any such other Degrees of literary Honor as they shall devise, upon any and all such Candidates and Persons as the President and Fellows, or Fellowship, shall judge worthy of the Academical Honors: Which Power of conferring Degrees is hereby restricted to the learned Faculty, who shall or may issue Diplomas or Certificates of such Degrees, or confer Degrees by Diplomas, and authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Professors, as Witnesses, and deliver them to the graduates as honorable and perpetual Testimonies.

Fellows to confer degrees

Diplomas granted

And furthermore, for the greater Encouragement of this Seminary of Learning, and that the same may be amply endowed and enfranchised with the same Privileges, Dignities, and Immunities enjoyed by the American Colleges, and European Universities, We do Grant, Enact, Ordain, and Declare, And it is hereby Granted, Enacted, Ordained, and Declared, That the College Estate, the Estates, Persons, and Families of the President and Professors, for the Time being, lying and being within the Colony, with the Persons of the Tutors and Students, during their Residence at the College, shall be freed and exempted from all Taxes,‡ serving on Juries, and menial Services: And that the Persons aforesaid shall be exempted from

Exemption from taxation, &c.

‡ *February 11, 1863, the Corporation voted as follows:*

WHEREAS the General Assembly of the State of Rhode Island at its present session on the 11th day of February 1863, has passed an Act the principal Section of which is in the following words viz: Section 1. The Corporation of Brown University in Providence consenting hereto that the estates, persons and families of the President and Professors for the time being, and their successors in office, shall not hereafter be freed and exempted from taxes for more than the amount of Ten Thousand dollars for each of such officers, his estates persons and family included.

And Whereas the Institution of Brown University, was established by its founders, was incorporated with liberal franchises by the State, has been maintained solely by private benefactions; all uniting for the same noble object, that is, to create and promote a seminary of religion and learning within this state whose beneficent influences should be diffused, at home and abroad through all time.

And Whereas those influences can, and will be most happily diffused and continued by a cordial good will and a harmonious coöperation between the General Assembly and citizens of this State and the University.

And Whereas the General Assembly by its Act aforesaid has expressed the opinion that the President and Professors should bear a portion of the burdens of taxation from which they are exempted by our charter, and has made the validity of its said Act to depend upon the consent of this Corporation thereto, thereby affirming and maintaining the inviolability of said Charter.

THEREFORE, in order to manifest our cordial compliance with a reasonable wish of the General Assembly as expressed in said Act, It is hereby Voted and declared by the Corporation of Brown University, that being authorized by the President and Professors of said University, this Corporation does in behalf of the President and Professors and in behalf of this Corporation consent to the said Act passed by the General Assembly of the State of Rhode Island at its present session, as aforesaid—and the Secretary of this Corporation is hereby instructed to file a copy of this vote under the seal of the Corporation and certified by himself in the Office of the Secretary of State, as proof of the consent of this Corporation thereto.

The above Report was accepted and the Vote was adopted unanimously.

bearing Arms, Impresses and Military Services, except in case of an Invasion.

And furthermore, for establishing the Perpetuity of this Corporation, and in Case that at any Time hereafter, through Oversight, or otherwise through Misapprehensions, and mistaken Constructions of the Powers, Liberties and Franchises herein contained, any Laws should be enacted, or any Matters done and transacted by this Corporation contrary to the Tenor of this Charter, It is hereby Enacted, Ordained and Declared, That all such Laws, Acts, and Doings, shall be in themselves null and void: Yet, Nevertheless, the same shall not in any Courts of Law, or by the General Assembly, be deemed, taken, interpreted, or adjudged into an Avoidance, Defeazance or Forfeiture of this Charter: But that the same shall be, and remain unhurt, inviolate, and entire unto the said Corporation, in perpetual Succession: Which Corporation may, at all Times, and forever hereafter proceed and continue to act: And all their Acts, conformable to the Powers, Tenor, true Intent and Meaning of the Charter, shall be, and remain in full Force and Validity, the Nullity and Avoidance of any such illegal Acts to the contrary in any wise notwithstanding.

Perpetuity of the Corporation

And lastly, We the Governor and Company aforesaid, Do, for ourselves and our Successors, forever hereby Enact, Grant and Confirm unto the said Trustees and Fellows, and to their Successors, That this Charter of Incorporation, and every Part thereof, shall be good and available in all Things in the Law, according to our true Intent and Meaning: And shall be construed, reputed, and adjudged in all Cases most favorably on the Behalf and for the best Benefit and Behoof of the said Trustees and Fellows, and their Successors, so as most effectually to answer the valuable Ends of this useful Institution.

Charter for the benefit of the Corporation and the College

In full Testimony of which Grant, and of all the Articles and Matters therein contained, the said Governor and Company do hereby order, That this Act shall be signed by the Governor and Secretary, and sealed with the Public Seal of this Colony, and registered in the Colony's Records: And that the same, or an Exemplification thereof, shall be

Signed and sealed

a sufficient Warrant to the said Corporation to hold, use and exercise all the Powers, Franchises, and Immunities herein contained.

In Conformity to the above Act, SAMUEL WARD, ESQ; Governor, Captain-General, and Commander in Chief, of and over the Colony aforesaid doth hereunto subscribe his Name, and hath caused the Seal of said Colony to be affixed the Twenty-fourth Day of October One Thousand Seven Hundred and Sixty-five, and in the Fifth Year of the Reign of his Most Sacred Majesty George the Third by the Grace of God King of Great Britain, &c.

SAM: WARD

By His Honor's Command
EDWD THURSTON jun D: Secry.

ADMISSION TO THE UNIVERSITY

METHODS OF ADMISSION TO THE FRESHMAN CLASS

I. ENTRANCE EXAMINATIONS CONDUCTED BY THE UNIVERSITY. Examinations for admission to the Freshman class are given by the University in September at the times and places indicated below. The University no longer offers entrance examinations in June; candidates desiring to be examined in June must take the examinations conducted under the supervision of the College Entrance Examination Board, for which see pages 42, 43. A candidate may, at his option, take all his examinations in June or in September, or he may take part in June and part in September. Before taking any examination conducted by the University, a candidate must present to the Registrar a letter of recommendation from the principal of his preparatory school and secure a card admitting him to the examination. This may be done by correspondence, provided that the written application and the recommendation are received not less than one week before the date of the first examination.

If a candidate offers subjects in excess of those required for admission, he may be examined in them at the times scheduled below and receive credit for them as college studies.

The order of the examinations in 1908 will be as follows:

THURSDAY, SEPTEMBER 17

Algebra, 27 Wilson Hall, 8 a.m. to 10 a.m.
Plane Geometry, 27 Wilson Hall, 10 a.m. to 12 m.
Elementary French, 2 Wilson Hall, 1 p.m. to 3 p.m.
Advanced French, 2 Wilson Hall, 4 p.m. to 6 p.m.

FRIDAY, SEPTEMBER 18

Elementary Greek, 2 Wilson Hall, 8 a.m. to 10 a.m.
Advanced Greek, 2 Wilson Hall, 10 a.m. to 11.30 a.m.
Astronomy, 25 Wilson Hall, 8 a.m. to 10 a.m.
Physiography, 25 Wilson Hall, 10 a.m. to 12 m.
Elementary Latin, 25 Wilson Hall, 12.30 p.m. to 2.30 p.m.
Advanced Latin, 25 Wilson Hall, 2.30 p.m. to 4 p.m.
American History, 27 Wilson Hall, 4 p.m. to 6 p.m.

SATURDAY, SEPTEMBER 19

English, 26 Wilson Hall, 8 a.m. to 10 a.m.
Chemistry, 2 Wilson Hall, 11 a.m. to 1 p.m.
Solid Geometry, 27 Wilson Hall, 2 p.m. to 4 p.m.
Plane Trigonometry, 27 Wilson Hall, 4 p.m. to 6 p.m.

Monday, September 21

Elementary German, 2 Wilson Hall, 8 a.m to 10 a.m.
Advanced German, 2 Wilson Hall, 10 a.m. to 12 m.
Greek and Roman History, 25 Wilson Hall, 1 p.m. to 3 p.m.
Physics, 1 Wilson Hall, 4 p.m. to 6 p.m.

Tuesday, September 22

English History, 25 Wilson Hall, 8 a.m. to 10 a.m.
Medieval and Modern History, 26 Wilson Hall, 10.30 a.m. to 12.30 p.m.

For students already pursuing courses in the University, entrance examinations are also given by the University at the close of the Christmas recess. Students desiring to take these examinations must file written applications with the Registrar before December 1. No student who has failed in an entrance examination will be granted a second examination at any time other than September, except on presentation of a tutor's certificate that he is prepared for such examination. No entrance examinations other than those appointed above will be held unless ordered by vote of the Committee on Registration and Attendance. For all examinations except those given in September a fee of two dollars is charged.

II. ENTRANCE EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD. Examinations conducted under the supervision of the College Entrance Examination Board will be accepted in place of the corresponding examinations conducted by Brown University. In 1908 these examinations will be held June 15–20.

All applications for such examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, and must be made upon a blank form to be obtained from the Secretary of the Board upon application. Applications for examination at points in the United States east of the Mississippi River, also at Minneapolis, St. Louis, and other points on the Mississippi River, must be received by the Secretary of the Board on or before Monday, June 1, 1908; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 25, 1908; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 11, 1908. Applications received later than the dates named will be accepted when it is possible to arrange for the examinations of the candidates concerned, but only upon the payment of $5.00 in addition to the regular fee.

The examination fee is $5.00 for all candidates examined at points in the United States and Canada, and $15.00 for all candidates examined at points outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1908, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

III. ADMISSION BY CERTIFICATE. Students are admitted upon presentation of a certificate signed by the principal of any school which has the privilege of issuing certificates to Brown University.

Principals of schools in New England who desire the certificate privilege for Brown University, or for any other college represented on the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown Street, Providence, R. I., who will furnish the necessary application blanks. These blanks must be returned to him before April 1 of the year for which the certificate privilege is desired.

The principals of schools situated outside of New England who desire the certificate privilege must make application to the Registrar of the University before May 1, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request. Certificates from the New York Board of Regents are accepted for the specified subjects so far as they coincide with the entrance requirements of Brown University.

Certificates are accepted for admission to the Freshman class only, not for admission to advanced standing. If any candidate offers subjects in excess of those required for admission he may be examined in them at the times indicated on pages 41, 42, and receive credit for them as college studies.

Blank forms for the certification of candidates may be obtained from the Registrar by the principals of schools having the privilege of certification. These forms should be filled out and returned to him by July 1. When a student has attended more than one school, a letter of recommendation from the principal of the school last attended must accompany the certificate.

ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

FOR THE DEGREE OF BACHELOR OF ARTS. In Group I all subjects must be presented. In addition seven points must be presented from Groups II and III. In Group II subjects aggregating at least six points, including at least three points in ancient languages and at least one point in modern languages, must be presented. In Group III one subject may be presented.

GROUP I. *English;* see page 45. *Algebra;* see page 47. *Plane Geometry;* see page 47. *Greek and Roman History;* see page 51.

GROUP II. *Latin (elementary and advanced), 3 points;* see page 48. *Greek (elementary), 2 points;* see page 48. *Greek (advanced), 1 point;* see page 48. *French (elementary), 1 point;* see page 49. *French (advanced), 1 point;* see page 49. *German (elementary), 1 point;* see page 50. *German (advanced), 1 point;* see page 51.

GROUP III. *Solid Geometry and Plane Trigonometry, 1 point;* see pages 47, 48. *Medieval and Modern History, English History, or American History, 1 point;* see page 51. *Physics, 1 point;* see page 52. *Chemistry, 1 point;* see page 52.

FOR THE DEGREE OF BACHELOR OF PHILOSOPHY. In Group I all subjects must be presented. In addition, seven points must be presented from Groups II and III. In Group II two or more languages are required, aggregating at least three points. In Group III free selection is allowed to complete the seven points.

GROUP I. *English;* see page 45. *Algebra;* see page 47. *Plane Geometry;* see page 47. *Greek and Roman History, Medieval and Modern History, English History, or American History;* see page 51.

GROUP II. *Latin (elementary), 2 points;* see page 48. *Latin (advanced), 1 point;* see page 48. *Greek (elementary), 2 points;* see page 48. *Greek (advanced), 1 point;* see page 48. *French (elementary), 1 point;* see page 49. *French (advanced), 1 point;* see page 49. *German (elementary), 1 point;* see page 50. *German (advanced), 1 point;* see page 51.

GROUP III. *Solid Geometry and Plane Trigonometry, 1 point;* see pages 47, 48. *History (any one of the four divisions not presented in Group I), 1 point;* see page 51. *Physics, 1 point;* see page 52. *Chemistry, 1 point;* see page 52. *Astronomy, 1 point;* see page 53. *Physiography, 1 point;* see page 53.

FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING, OR ELECTRICAL ENGINEERING, FOR STUDENTS ENTERING IN 1908.‡ In Group I all subjects must be presented. In Group II two subjects must be presented.

GROUP I. *English;* see page 45. *Algebra;* see page 47. *Plane Geometry;* see page 47. *Solid Geometry;* see page 47.

GROUP II. *French (elementary);* see page 49. *German (elementary);* see page 50. *Chemistry;* see page 52.

FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING, OR ELECTRICAL ENGINEERING, FOR STUDENTS ENTERING IN 1909.‡ In Group I

‡ The degree of Bachelor of Science is given in Brown University only for engineering courses. The work is mainly technical and offers no freedom of election.

all subjects must be presented. In addition, four subjects must be presented from Groups II and III. In Group II at least three subjects must be presented. The fourth subject may be presented from either Group II or Group III.

GROUP I. *English;* see page 45. *Algebra;* see page 47. *Plane Geometry;* see page 47. *Solid Geometry;* see page 48. *Greek and Roman History, Medieval and Modern History, English History, or American History;* see page 51.

GROUP II. *French (elementary)*; see page 49. *French (advanced)*; see page 49. *German (elementary)*; see page 50. *German (advanced)*; see page 51. *Chemistry;* see page 52.

GROUP III. *Latin (elementary)*; see page 47. *Greek (elementary)*; see page 48. *Physics;* see page 52. *History (any one of the four divisions not presented in Group I)*; see page 51. *Astronomy;* see page 53. *Physiography;* see page 53. *Botany;* see page 53.

Applicants for admission who have had extensive training in freehand drawing, and who, by presentation to the Committee on Registration and Attendance of properly certified plates, give evidence of exceptional ability in this work, may offer freehand drawing in place of any one of the subjects in Group III.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I. ENGLISH. Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and the simpler principles of rhetoric, and frequent practice in writing, with corrections by the teacher, are necessary. The candidate must show a practical knowledge of the essentials of English grammar, including grammatical terminology, inflections, syntax, and the relations of phrases and of clauses. He must be able to spell, capitalize, and punctuate correctly; to speak with due regard to the standard of pronunciation; to use words with idiomatic accuracy; to write clear and correct sentences; and to construct unified, coherent paragraphs. The second end is sought through the reading of standard authors, under the direction of the teacher. A number of pieces of good prose and poetry are prescribed, all of which should be read primarily with a view to understanding and enjoying them. Teachers are urged to require as much additional reading as possible, and to encourage the habit of voluntary reading.

The major portion of the examination paper is devoted to the prescribed reading, but ability to write clearly and correctly is quite as important as a knowledge of the books. The examination consists of two parts, which may be taken separately.

1. In the first part the candidate must show a general knowledge of the sub-

stance of the books named in list A below, and should also be able to answer simple questions on the lives of the authors.

2. In the second part the candidate will be required to answer questions on grammar and usage, and to correct examples of faulty English. He must also show such knowledge of the substance, structure, and style of the books named in list B below as will enable him to answer specific questions with accuracy and some detail; the questions, however, will test the student's knowledge of only the more important allusions and verbal difficulties and the simpler elements of literary form.

(A)

For Students entering in 1908: Shakspere's *Macbeth* and *The Merchant of Venice; The Sir Roger de Coverley Papers* in *The Spectator;* Scott's *Ivanhoe* and *The Lady of the Lake;* Irving's *Life of Goldsmith;* Coleridge's *Ancient Mariner;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *Vision of Sir Launfal;* George Eliot's *Silas Marner.*

For Students entering in 1909:‡ Shakspere's *Merchant of Venice* and *Julius Caesar;* Bunyan's *Pilgrim's Progress* (Part 1); *The Sir Roger de Coverley Papers* in *The Spectator;* Scott's *Lady of the Lake* and *Ivanhoe;* Irving's *Sketch Book;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* George Eliot's *Silas Marner.*

For Students entering in 1910 and 1911:‡ Shakspere's *Merchant of Venice* and *Julius Caesar; The Sir Roger de Coverley Papers* in *The Spectator;* Franklin's *Autobiography;* Scott's *Lady of the Lake* and *Ivanhoe;* Hawthorne's *House of the Seven Gables;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Dickens's *A Tale of Two Cities.*

(B)

For Students entering in 1908: Shakspere's *Julius Caesar;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Life of Johnson* and *Essay on Addison* or *Essay on Milton.*

For Students entering in 1909, 1910, and 1911: Shakspere's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

The requirement of the College Entrance Examination Board in English is accepted as an equivalent of the requirement in English. Candidates who

‡ The lists for the classes entering in 1909, 1910, and 1911 are selected from the list adopted by the Conference on Uniform Entrance Requirements in English, at a meeting held in Newark, N. J., February 22, 1905. Candidates may present other selections from that list provided they notify the Registrar, on or before the first day of August preceding the examination, of the substitutions they wish to make.

have credit for only part *a* of the Board's examination must take part 2 of the Brown University examination in English; those who have credit for only part *b* of the Board's examination must take part 1 of the Brown University examination.

II. ALGEBRA‡ The requirement in Algebra covers the work through equations of the second degree, including the following subjects: factors, common divisors, and multiples; fractions, ratios, and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals, and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations, and the reduction of equations; the ordinary methods of elimination; the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

It is important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulae, as, for example, the quadratic formula.

The requirement of the College Entrance Examination Board in Mathematics *a* (i and ii) is accepted as an equivalent of the requirement in Algebra.

III. PLANE GEOMETRY.‡ The requirement in Plane Geometry includes those propositions which are contained in the ordinary treatises and which are recognized as constituting the elements of Geometry; also original propositions, and problems in mensuration.

Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. Mere memorizing should be avoided. Special care should be taken that in the proof of a proposition no lines be drawn unless their construction is proved to be possible.

The requirement of the College Entrance Examination Board in Mathematics *c* is accepted as an equivalent of the requirement in Plane Geometry.

IV. SOLID GEOMETRY. The requirement in Solid Geometry includes the equivalent of the Solid and Spherical Geometry presented in Wells's *Geometry*, omitting the portion dealing with Regular Polyhedrons.

The requirement of the College Entrance Examination Board in Mathematics *d* is accepted as an equivalent of the requirement in Solid Geometry.

‡ Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computation with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course.

The school curriculum should be so arranged that no term shall pass without some time being given to a mathematical subject, and that both Algebra and Geometry shall be taken either in review or in advance during the last year of the course. For a four-year course an average of two and one half hours a week should be given to mathematics.

V. PLANE TRIGONOMETRY. The requirement in Plane Trigonometry includes the equivalent of what is presented in the first seventy-six pages of Wells's *New Plane and Spherical Trigonometry.*

The requirement of the College Entrance Examination Board in Mathematics *f* is accepted as an equivalent of the requirement in Plane Trigonometry.

VI. ELEMENTARY LATIN. The requirement in Elementary Latin includes: (1) Caesar's *Gallic War*, books I-IV, or books I-III and Sallust's *Catiline*, with questions on the forms, the constructions, and the subject-matter; (2) Cicero's *Orations against Catiline* and *Oration for Archias*, with questions on the grammar and the subject-matter; (3) Ovid,‡ twenty-five hundred lines, with questions on the subject-matter and prosody; (4) translation at sight of ordinary passages from Caesar and Cicero, with questions on the ordinary forms and constructions; (5) translation into Latin of simple English sentences.

The requirement of the College Entrance Examination Board in Latin *a* (i and ii), *b*, *c*, *g*, and *m* is accepted as an equivalent of the requirement in Elementary Latin.

VII. ADVANCED LATIN. The requirement in Advanced Latin includes: (1) Vergil's *Aeneid*, books I-VI, or books I-V and the *Eclogues*, with questions on the constructions, the subject-matter, and prosody; (2) translation at sight of prose and verse, with questions on the constructions, the subject-matter, and prosody; (3) translation into Latin of a continuous passage of English narrative prepared from some portion of the prescribed prose.

The requirement of the College Entrance Examination Board in Latin *o*, *l*, *p*, and *q* is accepted as an equivalent of the requirement in Advanced Latin.

VIII. ELEMENTARY GREEK. The requirement in Elementary Greek includes: (1) Xenophon's *Anabasis*, books I-IV, regard being had not only to language, but to subject-matter as well; (2) grammar, including a familiar knowledge of inflection, word-formation, and ordinary syntax. This will be tested by: (*a*) questions upon a passage from the *Anabasis;* (*b*) translation into Greek, with accents, of simple English sentences.

The requirement of the College Entrance Examination Board in Greek *a* (i and ii) and *b* is accepted as an equivalent of the requirement in Elementary Greek.

IX. ADVANCED GREEK. The requirement in Advanced Greek includes: (1) three books of Homer's *Iliad* or *Odyssey* with questions upon meter, Homeric dialect, etc., or (upon request four weeks in advance of the examination) an equivalent amount of a prose author; (2) translation at sight of simple Attic prose or Homer; (3) translation into Greek, with accents, of a continuous passage of English narrative, based upon material similar to the *Anabasis.*

‡ An equivalent amount of prose or poetry (preferably poetry) will be accepted in place of the requirement in Ovid.

The requirement of the College Entrance Examination Board in Greek *e*, *f*, *g*, and *h* is accepted as an equivalent of the requirement in Advanced Greek.

X. ELEMENTARY FRENCH. Candidates presenting elementary French should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions upon the rudiments of grammar.

The work of preparation should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and more common irregular verbs, plural nouns, adjectives, participles, and pronouns; the partitive constructions; the order of words in the sentence, and the elementary rules of syntax, including the simpler uses of the conditional and the subjunctive; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 200 to 400 duodecimo pages‡ of easy modern prose in the form of stories, plays, or historical or biographical sketches, with constant practice in translating into French easy variations upon the texts read. Suitable elementary texts are: Daudet's easier short stories, Erckmann-Chatrian's stories, Enault's *Le chien du capitaine*, Foa's *Contes biographiques* and *Le petit Robinson*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Laurie's *Mémoires d'un collégien*, Féval's *La fée des grèves*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Siège de Paris*, Verne's stories.

The requirement of the College Entrance Examination Board in French *a* is accepted as an equivalent of the requirement in Elementary French.

XI. ADVANCED FRENCH. Candidates presenting Advanced French should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages (including the amount read for the elementary requirement)§ of French of ordinary difficulty, of which a portion should be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation. Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Anatole France's *Le crime de Sylvestre Bonnard* and *Le livre de mon ami*, Pail-

‡ For students entering in 1910 or after, 250–490 duodecimo pages.

§ For students entering in 1910 or after, 400 pages in addition to the amount read for the elementary requirement.

leron's *Le monde où l'on s'ennuie*, Hugo's *La chute*, Loti's *Pêcheur d'Islande*, Sandeau's *Mademoiselle de la Seiglière*, Thiers's *L'expédition de Bonaparte en Égypte*, Vigny's *La canne de jonc*, Coppée's poems, de Maupassant's stories.

The requirement of the College Entrance Examination Board in French *b* is accepted as an equivalent of the requirement in Advanced French.

XII. ELEMENTARY GERMAN. Candidates presenting elementary German should be able to read at sight and to translate a passage of very easy dialogue or narrative prose, help being given upon unusual words and construction; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation; and to answer questions upon the rudiments of the grammar.

Two years should be given to preparation in this subject. During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of about 75 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of about 125 pages of literature in the form of easy stories and plays; (2) practice in the translation into German of easy variations upon the matter read and in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the second year of the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder;* Arnold's *Fritz auf Ferien;* Baumbach's *Die Nonna* and *Der Schwiegersohn;* Gerstäcker's *Germelshausen;* Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Aufang und Ende;* Hillern's *Höher als die Kirche;* Jensen's *Die braune Erica;* Leander's *Träumereien* and *Kleine Geschichten;* Seidel's *Märchen;* Stökl's *Unter dem Christbaum;* Storm's *In St. Jürgen* and *Geschichten aus der Tonne.* Among the available plays are Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen;* Elz's *Er ist nicht eifersüchtig;* Wichert's *An der Majorsecke;* Wilhelmi's *Einer muss heiraten.* It is recommended, however,

that not more than one play be read. The narrative style should predominate. A satisfactory selection would be: about forty pages of Andersen's *Märchen* or *Bilderbuch*, or Leander's *Träumereien*, *Das kalte Herz*, *Höher als die Kirche*, or *In St. Jürgen*; a good story by Heyse, Baumbach, or Seidel; and *Der Prozess*.

The requirement of the College Entrance Examination Board in German *a* is accepted as an equivalent of the requirement in Elementary German.

XIII. ADVANCED GERMAN. Candidates presenting Advanced German should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to the usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

The work should comprise, in addition to the elementary course, the reading of about 300 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and word-order and word-formation.

Suitable reading matter can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Bilder aus der deutschen Vergangenheit* — for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Goethe's *Hermann und Dorothea* and *Egmont*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Der Heilige*; Moser's *Der Bibliothekar*; Riehl's *Novellen* — for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannkind*; Rosegger's *Waldheimat*; Schiller's *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Uhland's poems; Wildenbruch's *Das edle Blut*; Keller's *Romeo und Julia auf dem Dorfe*; Liliencron's *Anno 1870*.

The requirement of the College Entrance Examination Board in German *b* is accepted as an equivalent of the requirement in Advanced German.

XIV. HISTORY. For examination in any of the historical fields named below the candidate will be expected to show such knowledge as may be acquired from the study of a good modern text-book of not less than three hundred pages, supplemented by not less than three hundred pages of suitable parallel reading. Questions on historical geography will be included in the examination. For preparation in either 1, 2, 3, or 4, a course of study equivalent to at least three lessons a week for one year is necessary.

No candidate will be allowed to present more than two of the four divisions.

1. Greek and Roman history: (*a*) Greek history to the death of Alexander, with due reference to Greek life, literature, and art; (*b*) Roman history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. Medieval and modern European history from the time of the barbarian invasions to the present.

3. English history, with due reference to political and social development and to international relations.

4. American history, including the elements of Civil Government.

The requirements of the College Entrance Examination Board in History are accepted as equivalents of the requirements in History.

XV. PHYSICS. The candidate's preparation in Physics should include: (1) the study of at least one standard text-book, supplemented by the use of many and varied numerical problems, to the end that a pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics; (2) instruction, by lecture-table demonstrations, upon the general principles involved in the pupil's laboratory investigations; (3) individual laboratory work comprising at least thirty-five exercises. Every candidate must present as a part of the examination a note-book, certified by the teacher, and containing in the candidate's own language a description of his laboratory exercises, the steps, observations, and results of each exercise being carefully recorded. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw correct conclusions.

Students who offer Physics for entrance will be permitted to enter the more advanced courses if, on consultation with the officers of the department, they are found to have the requisite qualifications.

The requirement of the College Entrance Examination Board in Physics is accepted as an equivalent of the requirement in Physics.

XVI. CHEMISTRY. The requirements include a knowledge of the non-metals and their principal combinations, the metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about one hundred simple experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Each candidate is expected to submit his manuscript notes, or reports of his work. A course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

Students who offer Chemistry for entrance will be permitted to enter the more advanced courses if, on consultation with the officers of the department, they are found to have the requisite qualifications.

The requirement of the College Entrance Examination Board in Chemistry is accepted as an equivalent of the requirement in Chemistry.

XVII. ASTRONOMY. The requirement in Astronomy implies class instruction for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied: *The Celestial Sphere;* designation of the directions of a heavenly body. *The Earth;* its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar. *The Moon;* its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun;* its rotation, physical characteristics, light, and heat. *The Planets;* apparent and real motions, individual characteristics. *The Law of Gravitation;* its control of the solar system; the tides. *Comets and Meteors;* their nature and motions. *The Stars;* designation, classification by constellations, motions, distance, brightness, variables. *Stellar Systems;* clusters, nebulae; the stellar universe, cosmogony.

As no examination in Astronomy is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see page 41.

XVIII. PHYSIOGRAPHY. The requirement in Physiography implies a thorough knowledge of the elementary principles as found in a standard textbook. The equivalent of a year's work of three hours a week is expected. The work should include the study of oceans, atmosphere, climate, weather, rivers; of land forms, their geographical distribution and classification, their origin, growth, and decay; and some study of the interrelation of man and nature. The candidate is required to submit attested reports of forty field and laboratory exercises.

The requirement of the College Entrance Examination Board in Geography is accepted as an equivalent of the requirement in Physiography.

XIX. BOTANY. The candidate is expected to do an amount of work equivalent to that outlined in the "briefer course" in Bergen and Davis's *Laboratory and Field Manual of Botany*, and their *Principles of Botany*, or to that indicated in Bergen's *Foundations of Botany*. A certified statement of the laboratory notes and drawings made in connection with the course must be submitted at the time of the examination.

The requirement of the College Entrance Examination Board in Botany is accepted as an equivalent of the requirement in Botany.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, provided that he present to the Registrar a

detailed statement of his previous work. This statement should include (1) a full list of the preparatory subjects accepted for admission by the institution previously attended; (2) a list of the subjects taken there, with their catalogue numbers and the standing attained therein by the student. It should be signed by the proper official and should be accompanied by a marked catalogue describing the subjects taken. If possible, it should be made out on the blank furnished by Brown University. The amount of credit to be given is determined by the Committee on Registration and Attendance.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the course which he desires to enter. He may then receive credit for any subject included in the curriculum of the course, provided, first, that he notify in writing the Committee on Registration and Attendance at the time he applies for admission to the University of his intention to present the subject, and second, that he pass an examination in the subject before a date set by the Committee.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Registrar, and should be sent, if possible, before August 1.

ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subjects and who have had the requisite preliminary training are allowed to enter the various courses of study in the University without becoming candidates for a degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

Applicants for registration as special students must present to the Registrar, on or before August 1 if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. Blanks for this statement will be furnished by the Registrar. In case a student has attended more than one institution, he must present credentials from all of them. Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school distinctly recommends such action. Applicants must satisfy the Committee on Registration and Attendance, by passing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students will be accepted as candidates for a degree only after they have fully satisfied the requirements for admission either by certificate or by examination.

ADMISSION OF GRADUATE STUDENTS

To be admitted as a graduate student, an applicant must have received the degree of Bachelor of Arts, of Philosophy, of Science, or of Letters from an institution of good standing, or must have completed in Brown University with a rank of C the work leading to the degree of Bachelor of Arts, of Philosophy, or of Science, with the exception of such an amount as the Committee on Registration and Attendance will allow him to take in excess of a full year's work (fifteen hours a week).

Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science, or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are admitted as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidacy for degrees.

REGISTRATION AND ENROLMENT OF UNDERGRADUATES

REGISTRATION. In September of each year all new students, whether candidates for a degree or special students, must report at the Registrar's office between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term, and fill out registration cards for the whole of the ensuing year. Failure to comply with this rule will be treated as late registration and a fee of three dollars charged. All new students must present at or before the time of registration all credentials necessary for admission as candidates for a degree or as special students.

In May of each year all undergraduates in residence, whether candidates for a degree or special students, must obtain at the Registrar's office registration cards for the next year; these cards must be filled out by the students with a statement of the courses elected for the whole of the ensuing year and returned not later than June 1. Failure to comply with this rule will be treated as late registration and a fee of three dollars charged.

Courses bearing a single number must be elected as a whole. When term courses are grouped in one paragraph (*e. g.* Astronomy 1, 2, 3), the second term may not be taken without the first, nor the third without the second, unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole will be given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. Changes in registration will be allowed only on presentation of sufficient reasons to the Committee on Registration and Attendance. Requests for permission to make changes in September must be presented to the committee between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term. Requests for permission to make changes for the second or third term must

be presented to the committee before the beginning of the examinations of the first and second terms respectively, unless these requests are the result of failures, in which case they must be presented in writing to the Registrar two days before the opening of the second and third terms respectively.

ENROLMENT. In September all students whose registration cards have been already approved must report at the Registrar's office between 10 a.m. and 5 p.m. on the day preceding the opening of the first term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars charged.

At the beginning of the second and third terms all undergraduates must report at the Registrar's office between 10 a.m. and 5 p.m. on the day preceding the opening of the term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars charged.

REGISTRATION AND ENROLMENT OF GRADUATE STUDENTS

On or before the first day of the academic year, every candidate for registration as a graduate student must file an application with the Dean of the Graduate Department naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Dean, and the blank must be signed by the heads of the departments concerned. The candidate, if not a student or graduate of Brown University, must submit to the Dean, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses he has pursued.

A student who has been registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Dean of the Graduate Department and by the Faculty. Although graduates of other colleges of good standing are entitled to registration as graduate students, they are not enrolled as candidates for degrees unless the course of study previously pursued by them is, in the opinion of the Dean of the Graduate Department acting in consultation with the Committee on Registration and Attendance, substantially equivalent to the course leading to the corresponding degree in Brown University. Graduates of colleges in which the course of study is not, in the opinion of this joint committee, equivalent to the corresponding course at Brown University, will be registered as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the committee.

Candidates for advanced degrees must have their selection of courses approved by the heads of the departments in which they are working, and a statement of these courses must be submitted by the heads of the depart-

ments to the Dean of the Graduate Department on or before October 15. In the case of candidates for the degree of Doctor of Philosophy the statement submitted in the first year of candidacy may be a preliminary outline of the course, but a final statement must be submitted by the head of the department in which the major subject lies not later than October 15 in the last year of candidacy. No change can be made without the consent of the Dean of the Graduate Department and of the head of the department which offers the course.

REQUIREMENTS FOR DEGREES

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REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

I. PRESCRIBED SUBJECTS

ANCIENT Languages (either Latin or Greek, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

Modern Languages (either French or German, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

Students presenting German only must take elementary French. Students presenting French only must take elementary German. Students presenting elementary French only must continue French in the Freshman year and take elementary German in either the Freshman or the Sophomore year. Students presenting elementary German only must continue German in the Freshman year and take elementary French in either the Freshman or the Sophomore year. Students presenting elementary French and elementary German only must continue both languages, but may postpone the continuation of one language until the Sophomore year. Students presenting elementary work in one language and elementary and advanced work in the other must take in the Freshman year the language in which the elementary work only was presented. Students presenting elementary and advanced work in both languages may take the required six hours in either French or German, or both.

Mathematics. Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

English. Rhetoric and Composition. Three hours. Freshman year.

European History. Three hours. Sophomore or Junior year.

English Literature. Any one of the courses in English from 10 to 23 inclusive. Sophomore, Junior, or Senior year.

Physical or Natural Science. Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

Political Science, Social Science, and Political Economy. One three-hour, one-term course in each of the three departments. Sophomore, Junior, or Senior year.

Philosophy. Some three-hour course continuous through the year. Sopho-

more, Junior, or Senior year. The courses in Education cannot be taken to satisfy this requirement.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Studies. *Latin* 1, 2, 3 or *Greek* 1, 2, 3. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16. *English* 1.

II. Elective Studies. One three-hour course running through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 7; for students presenting advanced German for admission. *Greek* 34, *Latin* 30, *Indo-European Philology* 1 (*Greek and Roman Literature and the History of Language*); for all students. *Chemistry* 1, 2, 3; for all students. *Chemistry* 4, 5, 6; for students presenting Chemistry for admission. (Subject to the consent of the department.) *Botany* 1 or *Comparative Anatomy* 1; for all students.

SOPHOMORE YEAR

I. That portion of the required work in ancient and modern languages not completed in the Freshman year.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II. Elective courses sufficient with those taken under I to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

I. PRESCRIBED SUBJECTS

Modern Languages. An amount sufficient, with the work presented for ad-

mission, to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French and advanced German is required to continue one of these languages for one year, three hours a week.

Mathematics. Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

English. Rhetoric and Composition. Three hours. Freshman year.

European History. Three hours. Sophomore or Junior year.

Physical or Natural Science. Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

Philosophy. Some three-hour course continuous through the year. Sophomore, Junior, or Senior year. The courses in Education cannot be taken to satisfy this requirement.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Studies. *English* 1. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16.

II. Elective Studies. Two three-hour courses running through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 7; for students presenting advanced German for admission. *Greek* 34, *Latin* 30, *Indo-European Philology* 1 (*Greek and Roman Literature and the History of Language*); for all students. *Chemistry* 1, 2, 3; for all students. *Chemistry* 4, 5, 6; for students presenting Chemistry for admission. (Subject to the consent of the department.) *Botany* 1 or *Comparative Anatomy* 1; for all students. *Mechanical Drawing* 2, 3; for all students.

SOPHOMORE YEAR

I. That portion of the required work in modern languages not completed in the Freshman year.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II. Elective courses sufficient with those taken under I to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FRESHMAN YEAR

First Term. *Mathematics* 17. *Mechanical Drawing* 1. *Civil Engineering* 1. *English* 1. *French* 2 or *German* 2.

Second Term. *Mathematics* 18. *Mechanical Drawing* 1. *Civil Engineering* 2. *English* 1. *French* 3 or *German* 2.

Third Term. *Mathematics* 19. *Mechanical Drawing* 1. *Civil Engineering* 3. *English* 1. *French* 4 or *German* 2.

SOPHOMORE YEAR

First Term. *Mathematics* 20. *Civil Engineering* 4. *Physics* 1. *Political Science* 1.‡ Also, of the following courses, the subject not presented for admission: *Chemistry* 1. *French* 1. *German* 1.

Second Term. *Mathematics* 21. *Civil Engineering* 5. *Physics* 2. *Economics* 1.‡ *Civil Engineering* 7. *Civil Engineering* 9. Also, of the following courses, the subject not presented for admission: *Chemistry* 2. *French* 1. *German* 1.

Third Term. *Mathematics* 21. *Civil Engineering* 6. *Physics* 3. *Social Science* 1.‡ *Civil Engineering* 8.§ *Civil Engineering* 10. Also, of the following courses, the subject not presented for admission: *Chemistry* 3. *French* 1. *German* 1.

JUNIOR YEAR

First Term. *Civil Engineering* 11. *Mechanics* 1. *Astronomy* 4. *Physics* 7. *Electrical Engineering* 1. *Geology* 17.

Second Term. *Civil Engineering* 12. *Mechanics* 1. *Astronomy* 5. *Physics* 7. *Electrical Engineering* 2. *Civil Engineering* 14.

Third Term. *Civil Engineering* 15. *Mechanics* 3. *Astronomy* 6. *Physics* 7. *Geology* 16.

‡ Or some other three-term course, in the Department of English, History, or Philosophy, chosen with the approval of the head of the Department of Civil Engineering.
§ Civil Engineering 8 is taken during the spring recess.

SENIOR YEAR

First Term. *Civil Engineering* 23. *Civil Engineering* 25. *Civil Engineering* 26. *Civil Engineering* 35. *Mechanical Engineering* 22. *Mechanics* 2. *Civil Engineering* 13.

Second Term. *Civil Engineering* 24. *Civil Engineering* 29. *Civil Engineering* 27. *Civil Engineering* 35. *Mechanical Engineering* 22. *Mechanics* 2. *Civil Engineering* 30. *Civil Engineering* 31.

Third Term. *Civil Engineering* 17. *Civil Engineering* 18. *Civil Engineering* 28. *Civil Engineering* 35. *Civil Engineering* 19. *Civil Engineering* 32. *Civil Engineering* 34.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

FRESHMAN YEAR

First Term. *Mathematics* 17. *Mechanical Drawing* 1. *Civil Engineering* 1. *English* 1. *French* 2 *or German* 2.

Second Term. *Mathematics* 18. *Mechanical Drawing* 1. *Civil Engineering* 2. *English* 1. *French* 3 *or German* 2.

Third Term. *Mathematics* 19. *Mechanical Drawing* 1. *Civil Engineering* 3. *English* 1. *French* 4 *or German* 2.

SOPHOMORE YEAR

First Term. *Mathematics* 20. *Mechanical Drawing* 4. *Physics* 1. *Political Science* 1.‡ Also, of the following courses, the subject not presented for admission: *Chemistry* 1. *French* 1. *German* 1.

Second Term. *Mathematics* 21. *Mechanical Drawing* 5. *Physics* 2. *Economics* 1.‡ *Mechanical Engineering* 1. Also, of the following courses, the subject not presented for admission: *Chemistry* 2. *French* 1. *German* 1.

Third Term. *Mathematics* 21. *Mechanical Engineering* 8. *Physics* 3. *Social Science* 1.‡ *Mechanical Engineering* 2. Also, of the following courses, the subject not presented for admission: *Chemistry* 3. *French* 1. *German* 1.

JUNIOR YEAR

First Term. *Mechanical Engineering* 19. *Mechanical Engineering* 16. *Mechanical Engineering* 3. *Mechanical Engineering* 9. *Mechanics* 1. *Physics* 7.

Second Term. *Mechanical Engineering* 20. *Mechanical Engineering* 17. *Mechanical Engineering* 4. *Mechanical Engineering* 10. *Mechanics* 1. *Physics* 7.

Third Term. *Mechanical Engineering* 21. *Mechanical Engineering* 18. *Mechanical Engineering* 11. *Mechanics* 3. *Physics* 7.

‡ Or some other course, not technical, chosen with the approval of the head of the Department of Mechanical Engineering.

SENIOR YEAR

First Term. *Mechanical Engineering* 22. *Mechanical Engineering* 5. *Mechanical Engineering* 12. *Mechanics* 2. *Electrical Engineering* 1. *Mechanical Engineering* 23. *Mechanical Engineering* 25.

Second Term. *Mechanical Engineering* 22. *Mechanical Engineering* 6. *Mechanical Engineering* 13. *Mechanics* 2. *Electrical Engineering* 2. *Mechanical Engineering* 24. *Mechanical Engineering* 25.

Third Term. *Mechanical Engineering* 14. *Mechanical Engineering* 15. *Electrical Engineering* 3. *Civil Engineering* 32. *Mechanical Engineering* 25.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

First Term. *Mathematics* 17. *Mechanical Drawing* 1. *Civil Engineering* 1. *English* 1. *French* 2 *or German* 2.

Second Term. *Mathematics* 18. *Mechanical Drawing* 1. *Civil Engineering* 2. *English* 1. *French* 3 *or German* 2.

Third Term. *Mathematics* 19. *Mechanical Drawing* 1. *Civil Engineering* 3. *English* 1. *French* 4 *or German* 2.

SOPHOMORE YEAR

First Term. *Mathematics* 20. *Mechanical Drawing* 4. *Physics* 1. *Political Science* 1.‡ Also, of the following courses, the subject not presented for admission: *Chemistry* 1. *French* 1. *German* 1.

Second Term. *Mathematics* 21. *Mechanical Drawing* 5. *Physics* 2. *Economics* 1.‡ *Mechanical Engineering* 1. Also, of the following courses, the subject not presented for admission: *Chemistry* 2. *French* 1. *German* 1.

Third Term. *Mathematics* 21. *Mechanical Engineering* 8. *Physics* 3. *Social Science* 1.‡ *Mechanical Engineering* 3. Also, of the following courses, the subject not presented for admission: *Chemistry* 3. *French* 1. *German* 1.

JUNIOR YEAR

First Term. *Mechanics* 1. *Mechanical Engineering* 4. *Mechanical Engineering* 9. *Physics* 7. *Electrical Engineering* 1. *Electrical Engineering* 7.

Second Term. *Mechanics* 1. *Mechanical Engineering* 5. *Mechanical Engineering* 10. *Physics* 7. *Electrical Engineering* 2. *Electrical Engineering* 8.

Third Term. *Mechanics* 3. *Mechanical Engineering* 11. *Physics* 7. *Electrical Engineering* 3. *Electrical Engineering* 9.

‡ Or some other course, not technical, chosen with the approval of the head of the Department of Electrical Engineering.

SENIOR YEAR

First Term. *Mechanics* 2. *Mathematics* 9. *Electrical Engineering* 4. *Physics* 23. *Electrical Engineering* 10. *Electrical Engineering* 14.

Second Term. *Mechanics* 2. *Electrical Engineering* 11. *Electrical Engineering* 5. *Physics* 23. *Electrical Engineering* 12. *Electrical Engineering* 14.

Third Term. *Civil Engineering* 17. *Physics* 19 *or an equivalent. Electrical Engineering* 6. *Physics* 23. *Electrical Engineering* 13. *Civil Engineering* 32. *Electrical Engineering* 14.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

To obtain the degree of Master of Arts, the candidate must first have received the degree of Bachelor of Arts, of Philosophy, of Science,‡ or of Letters, or, being a student in the Senior class in Brown University, must have been admitted, in the manner prescribed under "Admission of Graduate Students," to candidacy for the bachelor's degree and the master's degree at the ensuing Commencement, and must further complete a course of liberal graduate study of not less than fifteen hours a week for one year. Work done in residence for an advanced degree at another institution, and not to be used in fulfilment of the requirements for an advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Master of Arts; but the equivalent of at least nine hours' work a week for one year must be done at Brown University. Graduates of Brown University who have to their credit work done as undergraduates and not counted towards the bachelor's degree may offer such work in partial fulfilment of the requirements for the degree of Master of Arts, provided such work is in courses which may be taken by graduates and does not lie in more than three departments, and provided the student has completed the work with a grade of C. When graduate students pursue courses primarily designed for undergraduates, a higher degree of scholarship than in the case of undergraduates will be required.

When any part of the work leading to the degree of Master of Arts is done *in absentia*, the degree will not be conferred until the end of the second full year of study. The degree *in absentia* must be taken within three years after enrolment, unless the period is extended by special action of the Faculty. Candidacy *in absentia* may be terminated at the end of six months if definite evidence of progress has not been submitted. Candidates *in absentia* must register (by correspondence, if necessary) at the beginning of each college year, and make reports to their instructors at the end of each term. A final public examination is required of all candidates *in absentia*. This examination will be held only when notification of the intention to appear for examination

‡ The degree of Bachelor of Science when given for technical work does not lead to the degree of Master of Arts or Doctor of Philosophy in Brown University.

is given on or before April 1 of the year in which the candidate desires to receive the degree.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

To obtain the degree of Master of Science, the candidate must first have obtained the degree of Bachelor of Science, or have obtained the degree of Bachelor of Arts or Bachelor of Philosophy upon a course including at least an average of seven hours of work a week for four years in one or more of the mathematical, physical, or natural sciences, of a grade equivalent to that of similar work in Brown University. He must further complete a course of scientific study satisfactory to the Dean of the Graduate Department and the departments concerned, of not less than fifteen hours of work a week for one year, and must present a thesis in one of the graduate courses which he is pursuing; in place of the thesis a six-hour graduate laboratory course extending through the year may be accepted. All the work must be done in residence at Brown University with the exception that work done for the degree of Master of Science at another institution, and not to be used in fulfilment of the requirements for any degree elsewhere, may, with the approval of the Dean of the Graduate Department and the departments concerned, be accepted in partial fulfilment of the requirements for the degree of Master of Science to the extent of not more than six hours of work a week for one year. All the work of a candidate for the degree of Master of Science must be in one or more of the following subjects: mathematics, engineering, physics, chemistry, astronomy, the biological sciences, psychology, geology, and mineralogy. At least half the work required for the degree of Master of Science must be in courses designed wholly or primarily for graduates; the remainder may consist of any courses satisfactory to the departments concerned and to the Dean of the Graduate Department.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

To obtain the degree of Doctor of Philosophy, the candidate must first have obtained the degree of Bachelor of Arts, of Philosophy, of Science,‡ or of Letters. He must spend at least two years continuously in residence, pursuing a systematic course of advanced study approved by the Graduate Department, the Faculty, and the Board of Fellows, and must pass satisfactory examinations thereon. Work done in residence for the degree of Doctor of Philosophy at another institution, and not to be used in fulfilment of the requirements for an advanced degree elsewhere, may, with the approval of the

‡ See footnote, page 64.

Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Doctor of Philosophy ; one full year of continuous work, however, must be spent at Brown University. The candidate must conclude his course with a thesis embodying the results of original research, giving evidence of high scholarship and of special attainments in the studies pursued, and constituting as a whole a definite contribution to knowledge. The candidate is examined publicly before June 1 by a committee consisting in each case of the Graduate Department, together with those members of the Faculty who have directed the work of the candidate and any other officers of professorial rank in the departments concerned. The examination is held only when notification of the intention to appear for examination is given on or before April 1 of the year in which the candidate desires to obtain his degree. The thesis of a candidate for the degree of Doctor of Philosophy must be presented to the Faculty, in typewritten copy or print, before May 1 in that year. The approval of this thesis by the Faculty is essential to the attainment of the degree.

For the degree of Doctor of Philosophy at least two subjects are necessary, a major and a minor, not in the same department; the major subject must constitute not less than three-fifths of the candidate's work. The selection of the courses constituting the major and the minor subjects must receive the approval of the head of the department in which the major subject lies, and of the Dean of the Graduate Department. The approval of the head of the department in which the minor subject lies is also necessary for the courses elected in his department.

The candidate must possess a reading knowledge of Latin, German, and French adequate for the purposes of his special studies, unless for sufficient reasons he is excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before December 1 in the last year of his candidacy by a committee consisting of the heads of the departments in which the major and the minor subjects lie, and the heads of the departments of Latin, German, and French.

A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

REGULATIONS UNDER WHICH A STUDENT MAY TAKE A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree, who has credit for the required number of hours of work, including all the required subjects, may, at the end of the term in which his work is completed, be excused from further attendance at the University and may receive his degree at the Commencement next following such term.

A candidate for a first degree who has maintained a satisfactory standing in

his studies may, subject to the consent of the Committee on Registration and Attendance, take work in addition to the regular number of hours prescribed in the curriculum of the course which he is pursuing.

A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, provided that the work have the approval of the head of the corresponding department in Brown University. The amount of credit given at the institution in question will be given at Brown University, but the total credit for work at summer schools in any one summer shall not exceed fifteen term hours.

A candidate for a first degree may, with the consent of the head of a department and with the approval of the Faculty, pursue studies connected with that department during any summer in which he does not attend a summer school, and may receive credit for such studies, provided that the work be under the supervision of the head of the department concerned and that the candidate pass an examination in all the work before the end of the following term. The amount of credit will be determined by the head of the department, but the total credit for any one summer shall not exceed nine term hours. No student will be allowed to do summer work in connection with any department of the University until he has presented to the head of the department a registration slip signed by the Registrar.

If a student at the beginning of his Senior year lacks less than forty-five term hours of completing his course he may, with the consent of the Committee on Registration and Attendance, distribute his work over the year.

If a student at the beginning of any term lacks less than fifteen term hours of completing his course he may, for reasons deemed sufficient by the Committee on Registration and Attendance, be excused from taking more than the necessary number of hours.

For conditions under which graduate work may be pursued during the Senior year, see page 55, under "Admission of Graduate Students."

ATTENDANCE, STANDING, AND EXAMINATIONS

ATTENDANCE. Every student is required to attend the daily Chapel service and also every exercise in the several studies to which he is assigned.

STANDING. A record is kept of the attendance of every student and of his proficiency in his several studies. At the close of each term a report is sent to the parent or guardian of every undergraduate student containing a record of all his absences from required exercises, and indicating his standing in each of his studies for the term and his deficiency in any study or studies, if any deficiency exists. A student who has failed in three or more courses in any term, counting for more than eight hours a week, cannot continue his work without the permission of the Committee on Registration and Attendance. The standing of students is indicated by letters as follows:

H is assigned to those whose work is of such excellence as to merit the designation of honor work.

C is assigned to those who have passed with credit.

P is assigned to those who have passed in the subject, but deserve no higher recognition.

F is assigned to those who have failed to pass, but who, in the opinion of the instructor, should be allowed a second examination.

FF is assigned to those whose work during the term has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed an examination, or to those whose work in the regular examination has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed a second examination, or to those who, in a laboratory course, have not completed half the work required.

I is assigned to those whose work is incomplete, but satisfactory so far as done.

A is assigned to those who were absent from the examination, unless FF has already been assigned.

AA is assigned to those who have been absent one-half the time in a course.

EXAMINATIONS. Except in laboratory, seminary, and similar work, all classes are examined at the close of each term. A student is not admitted to the examinations unless his term bill has been paid in full. A student is not admitted to the examination in a study in which he has received the mark FF or AA.

Examinations other than the regular term examinations are given only in the cases of: (1) students who have received the mark F, (2) students who have received the mark A, and (3) candidates for advanced standing.

A student is not admitted to a special examination except on written au-

thorization from the Registrar. If the examination is taken to remove the mark F or A, the student must pay to the Registrar a fee of two dollars. The Registrar does not authorize special examinations for advanced standing or to remove the mark A without the consent of the Committee on Registration and Attendance.

Special examinations upon the work of the first and second terms are given only during the following term on the third Wednesday and succeeding Wednesdays and Saturdays, or in September of the next academic year, on as many days as may be necessary preceding the opening of the term. Special examinations upon the work of the third term are given only on the above-mentioned days in the following September.

Students desiring special examinations in the second or third term must make application to the Registrar not later than the first Saturday of the term, specifying the subjects in which examinations are desired. On or before the second Wednesday of the term, a schedule of all special examinations will be posted. Students desiring special examinations in September must make application to the Registrar not later than August 1, specifying the subjects in which examinations are desired. A schedule of the September examinations is sent to the students concerned not later than September 1. Special examinations on the work of the third term of the Senior year are arranged at the convenience of the instructor.

Special examinations at times other than those scheduled are allowed only by consent of the Committee on Registration and Attendance.

Special examinations for advanced standing are, so far as possible, arranged at the times assigned for other special examinations.

COURSES OF INSTRUCTION

*IN every department courses bearing a single number must be elected as a whole. When term courses are grouped in one paragraph (*e. g. *Astronomy 1, 2, 3), the second term may not be taken without the first, nor the third without the second, unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. When the time of meeting is not announced, it will be arranged with the instructor at the beginning of the term.*

I. ART

WILLIAM CAREY POLAND, A.M., LITT. D., *Professor of the History of Art*

1, 2, 3. *History of Art from Antiquity through the Renaissance*

First term, ancient art; a general course in the history of ancient art, chiefly Greek. Second term, Roman, early Christian, and Medieval art; a study of Roman, Romanesque, and Gothic art, with some notice of Byzantine, Arabian, and Oriental art. Third term, art of the Renaissance; the fifteenth and sixteenth centuries; the effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

4, 5. *Modern Art*

First term, the seventeenth and eighteenth centuries. Second term, the nineteenth century. Text-book, lectures, special assigned topics, lantern views.

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates, who have credit for 3. *Tu., Th., Sat., at 12.20.*

6. *Theory and Criticism of the Fine Arts*

A study of the more important facts and laws of artistic production. Text-book, special assigned topics, illustrated lectures.

Three hours. Third Term. Elective for students who have credit for any course in Art. *Tu., Th., Sat., at 12.20.*

[7. *Seminary in Classical Architecture*]

Critical study; reading of Vitruvius in Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius upon the Renaissance.

Three hours. Second and Third Terms. Elective for Graduates. Offered only if three or more elect the course. It is advised that applications be made to Professor Poland at an early date. Not offered in 1907–8. To be offered in 1908–9.

[8. *Seminary in Greek and Roman Sculpture*]

An archaeological course based on Overbeck's *Schriftquellen.*

Three hours. Through the year. Elective for Graduates who read Greek and Latin. Not offered in 1907–8.

[9. *Seminary Study of the Acropolis of Athens*]

Critical reading, in Greek, of Pausanias's account of the Acropolis of Athens; lectures and illustrations.

Three hours. First Term. Elective for Graduates who read Greek and Latin. Offered only if three or more elect the course. It is advised that applications be made to Professor Poland at an early date. Not offered in 1907–8. To be offered in 1908–9.

10. *Freehand Drawing*

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design. *Tu., or Th., or Fri., at 2.20.*

11. *Practical Work in Art*

Six hours of drawing or other practical work. To illustrate the principles of delineation, color, and chiaroscuro, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

Three hours. Through the year. Elective for students who have credit for 10, and who have taken or are taking 1, 2, 3. Given at the Rhode Island School of Design. *Tu., Th., Fri., at 2.20.*

12. *Seminary in Renaissance Art*

Critical study of the art of the fifteenth and sixteenth centuries, particularly Italian. A more detailed study of the spiritual conditions, the influences, and the masters, than in 3.

Three hours. Through the year. Elective for Graduates who have credit for 3. Offered only if three or more elect the course. Not to be offered in 1908–9.

II. ASTRONOMY

WINSLOW UPTON, A.M., SC.D., *Professor of Astronomy*
FREDERICK SLOCUM, PH.D., *Assistant Professor of Astronomy*

1, 2, 3. *General Course*

Fundamental conceptions of the science; methods of professional study; present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy;* lectures and abstracts upon assigned topics. Designed either for purposes of general culture or as a preparation for technical work. *Professor* UPTON.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. *Tu., Th., Fri., at 3.20.*

4, 5, 6. *Geodetic Astronomy*

Application of astronomy to geodesy; the problems of time, latitude, longitude, and azimuth. Computations and observations. *Professor* UPTON.

Three hours. Through the year. Required of engineering students. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. May be taken at the same time as 1, 2, 3. *Mon., Tu., Th., at 2.20.*

7, 8, 9. *Nautical Astronomy*

Principles of navigation; methods of determining the position of a ship at sea; use of sextant, compass, and chart for determining latitude, longitude, bearings, and courses. *Professor* SLOCUM.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for Mathematics 3, 1, 2. May be taken at the same time as 1, 2, 3. Not elective for students who have taken or are taking 4, 5, 6. Not to be offered in 1908–9. *Mon., Wed., Th., at 10.20.*

10, 11, 12. *Practical Astronomy*

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy,* with instrumental observations. *Professor* UPTON.

Three hours. Through the year. Elective for Graduates, and for Undergraduates who have shown special aptitude for instrumental observations.

13, 14, 15. *Special Advanced Work*

Subjects selected to meet the requirements of individual students. *Professor* UPTON.

Three hours. Through the year. Elective for Graduates.

III. BIBLICAL LITERATURE AND HISTORY ‡

HENRY THATCHER FOWLER, PH.D., *Professor of Biblical Literature and History*

HENRY ENGLANDER, A.M., *Assistant in Biblical Literature and History*

1. *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis and Deuteronomy. *Professor* FOWLER *and Mr.* ENGLANDER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

2. *Historical Hebrew*

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary; review of the elements of Hebrew grammar and study of syntax. *Professor* FOWLER *and Mr.* ENGLANDER.

Three hours. Through the year. Elective for students who have credit for 1.

3. *Hebrew Literature*

Wisdom literature. Critical translation of the wisdom books of the Old Testament and investigation of the nature and growth of the speculative thought of ancient Israel. In succeeding years corresponding courses in the Legal, Prophetic, and Psalm literature of the Old Testament will be offered. *Professor* FOWLER.

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

4. *Textual Criticism of the Old Testament*

The principles and method of textual criticism, in connection with the study of one of the shorter prophetical books. *Mr.* ENGLANDER.

Three hours. One term. Offered if applied for by Graduates.

5. *Biblical Aramaic*

Grammar and reading of the Aramaic portions of the Old Testament. *Mr.* ENGLANDER.

Three hours. One term. Offered if applied for by students who have credit for 1.

6. *Elementary Arabic*

Grammar; exercises in writing Arabic; translation of prose selections. *Professor* FOWLER.

Two hours. Through the year. Elective for Seniors and Graduates.

‡ For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see page 156, under "Arrangements with Other Institutions."

7, 8, 9. *Gospels and Epistles*

Characteristics of Hellenistic Greek; translation, and investigation of date, authorship, and thought. First term, the Johannine writings. Second term, the Gospel of Mark and the First Epistle of Peter. Third term, the Gospels of Matthew and Luke. If desired by the class, translation from the writings of Justin Martyr may be substituted for the specified reading of the second term. First and third terms, *Professor* FOWLER. Second term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 2.20.*

10, 11, 12. *Acts and Pauline Epistles*

First term, Acts. Second term, Thessalonians and Galatians. Third term, Corinthians and Romans. *Professors* ALLINSON *and* FOWLER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently.

[13, 17, 18. *Hebrew and Early Jewish History and Literature*]

First term, early Semitic history, the formative age of Hebrew history, and Hebrew literature before the Monarchy. Second term, history and literature of the Hebrew Monarchy. Third term, Jewish history and literature from the Captivity to the Maccabean Revolt. Includes nearly the entire Old Testament history and literature. In connection with 14, 19, 20, gives a comprehensive view of Biblical history and literature. The Biblical books are read in the best English translations; no knowledge of the original languages is required. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Not offered in 1907–8.

14, 19, 20. *Later Jewish and Early Christian History and Literature*

First term, the Maccabean and Roman ages of Jewish history and literature. Second term, the four Gospels and the life of Christ. Third term, the Acts, Epistles, Apocalypse, and the history of the Apostolic age. Includes a large part of the Jewish writings from the second century B.C. to the fall of Jerusalem, and the entire New Testament history and literature, studied in its Jewish setting. In connection with 13, 17, 18, gives a comprehensive view of Biblical history and literature. The books are read in the best English transla-

tions; no knowledge of the original languages is required. *Professor* Fowler.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

15.* *Biblical Seminary*

Subject for 1907–8: Critical investigation of the sources for the life of Christ. *Professor* Fowler.

Three hours. Through the year. Elective for Graduates and approved Juniors and Seniors.

16. *Principles of Historical Criticism and Research*

This course is the same as the first term of course 25 offered by the Department of History. *Professor* MacDonald.

One hour. First Term. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in Biblical Literature and History.

IV. BOTANY ‡

James Franklin Collins, Ph.B., *Assistant Professor of Botany*

1. *Introductory Course*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of plants and animals, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Botany 1 and Comparative Anatomy 1 are identical and the classes are combined.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon., Tu., Th., 2.20 to 4.20.*

2.* *Morphology and Physiology*

Minute structure and special functions of plants, and their tissues; embryology; classification; glycerin and paraffin technic, etc. The

‡ Students intending to teach or to apply for positions in the government or state experiment station service are advised to supplement courses 1, 2 and 3, 4, 5 with advanced or special work in course 6.

work of the third term can be arranged to meet the more special needs of students intending to take up either medicine or forestry. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Not to be offered in 1908–9. Alternates with 3, 4, 5. *Mon., Wed., Fri., at 12.20.*

[3, 4, 5. *Cryptogams*]

Morphology, physiology, and classification. First term, lower fungi and algae. Second term, higher fungi and fungal diseases. Third term, hepatics, mosses, ferns, and their allies. Intended to give a general view of the evolution of the cryptogams and of the life-history of certain types. Special stress is laid upon fungal diseases of crops and trees, and upon the methods of studying them. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

Three hours. Six hours of attendance. Through the year. Course 3 is elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Courses 4 and 5 are each elective for those who have credit for 3. Not offered in 1907–8. To be offered in 1908–9. Alternates with 2.

6.* *Investigation*

The character of the problems varies, and the course may therefore be taken two or more years in succession. Students electing this course must, so far as possible, definitely arrange the work and the time schedule with the instructor before June 1 of the preceding academic year. Special work upon almost any phase of botany may be chosen if approved by the instructor.

One to three hours. Through the year. Two to six hours of attendance for qualified Juniors and Seniors. Primarily for Graduates, who may, with the approval of the instructor, elect the course for more than three hours.

7. *Trees*

Lectures, field study, and identification of trees; economic value of wood, etc. Primarily a field course with lectures or laboratory work during the early part of the term. No previous knowledge of botany required.

One hour. Two hours of attendance. Third Term. Elective for Undergraduates.

V. CHEMISTRY

JOHN HOWARD APPLETON, A.M., Sc.D., *Newport-Rogers Professor of Chemistry*

JOHN EMERY BUCHER, PH.D., *Associate Professor of Organic Chemistry*

MAURICE LOUIS DOLT, Sc.M., *Instructor in Chemistry*

FREDERICK GEORGE KEYES, Sc.M., *Assistant in Chemistry*

WALTER CLIFTON SLADE, PH.B., *Assistant in Chemistry*

1, 2, 3. *Descriptive Chemistry*

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; individual laboratory work. *Professor* BUCHER, *Messrs.* DOLT, KEYES, *and* SLADE.

Three hours. Through the year. Elective for Undergraduates. *1st div. Mon., Th., at 10.20; 2d div. Tu., Fri., at 10.20; 3d div. Wed., Sat., at 11.20.* Laboratory hours to be arranged with the instructor.

4, 5. *Qualitative Analysis*

First term, properties of the metallic elements; their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry. Second term, the principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. First and Second Terms. Elective for Juniors who have credit for 1, 2, 3. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

6. *Quantitative Analysis*

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. Third Term. Elective for Juniors who have credit for 4, 5. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

7, 8, 9. *Quantitative Analysis, advanced course*

Assaying of metallic ores; analysis of agricultural materials; testing

of chemicals used in textile establishments, etc. *Professor* APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Through the year. Elective for Seniors and Graduates who have credit for 6. Laboratory hours to be arranged with the instructor.

10, 11, 12. *Organic Chemistry*

Preparation and analysis of representative organic compounds. Lectures, recitations, and laboratory work. *Professor* BUCHER *and Mr.* DOLT.

Six hours. Through the year. First and second terms, three lectures a week and three laboratory periods a week. Elective for approved Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

13. *Assaying*

Professor APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Third Term. Elective for Seniors and Graduates who have credit for 1–6.

14. *Organic Dyes*

The chemistry and use of mordants, dyes, etc. *Professor* APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Third Term. Elective for approved Seniors and Graduates.

15, 16, 17. *Industrial Chemistry*

Lectures and laboratory work. *Professor* APPLETON.

Three to six hours. Six to twelve hours of attendance. Through the year. Elective for approved Graduates. Each term may be elected independently.

18, 19, 20. *Physical Chemistry*

Lectures and laboratory work. *Professor* BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates.

[21, 22. *Organic Chemistry, advanced course*]

Professor BUCHER.

Three hours. First and Second Terms. Elective for approved Graduates. Not offered in 1907–8.

[23. *Inorganic Chemistry, advanced course*]

Professor BUCHER.

Three hours. Third Term. Elective for approved Juniors, Seniors, and Graduates. Not offered in 1907–8.

24, 25, 26. *Organic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates.

27, 28, 29. *Inorganic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates, who have credit for 10, 11, 12.

30, 31, 32. *Research Work in Chemistry*

Professor BUCHER.

Three hours, or more. Through the year. Elective for Graduates.

33, 34, 35. *Conference on Special Topics in Chemistry*

Professor BUCHER.

One hour. Through the year. Elective for approved students.

36, 37, 38. *Conference on Special Topics in Chemistry*

Professor APPLETON.

One hour. Through the year. Elective for approved students.

VI. CIVIL ENGINEERING‡

JOHN EDWARD HILL, C.E.M., Sc.D., *Professor of Civil Engineering*

ARTHUR HORACE BLANCHARD, C.E., A.M., *Associate Professor of Civil Engineering*

OSCAR WILLIAM RACKLE, Sc.B. in C.E., *Assistant in Civil Engineering*

EVERETT HAROLD SWETT, PH.B., Sc.B. in C.E., *Assistant in Civil Engineering*

1, 2, 3. *Lettering*

Practice in simple lettering as a preparation for work in the drafting room. *Professor* HILL.

One hour. Two hours of drafting. Through the year. Not elective. *1st div. Tu. 2.20 to 4.20; 2d div. Fri. 2.20 to 4.20.* Second term, *3d div. Wed. 2.20 to 4.20.*

‡ All the courses in this department except 16 are required of candidates for the degree of Bachelor of Science in Civil Engineering; all except 1, 2, 3 and 32 and 35 are elective for other students.

4, 5, 6. *Surveying, elementary course*

Theory and practice of plane surveying; use of tape, compass, level, and transit; adjustment of instruments. Lectures, recitations, field work, and drafting. *Professors* Hill *and* Blanchard, *Messrs.* Rackle *and* Swett.

Three hours. One hour of recitation first and third terms, and usually six hours of field work or drafting. Through the year. Elective for students who have credit for Mathematics 3, 1, 2, and for Mechanical Drawing 1 or 2. *Tu. at 11.20; Mon., Th., 2 to 5.*

7. *Topographical Drawing*

Pen and colored topography; hill shading by different methods, contour drawing, topographic map-making, conventional signs for structural materials. *Professor* Blanchard *and Mr.* Rackle.

Three hours. Six hours of drafting. Second Term. Elective for Juniors and Seniors who have credit for Mechanical Drawing 1 or 2. *Wed., Fri., 2 to 5.*

8, 9. *Surveying, advanced course*

Topography and hydrography; city surveying; use of stadia, plane table, sextant, and barometer; precise base-line measurements with steel tape. Methods as in 4, 5, 6. *Professors* Hill *and* Blanchard, *Messrs.* Rackle *and* Swett.

Three hours and one hour. Second Term. Course 8 is taken during the spring recess. Elective for students who have credit for 4. *Tu. at 11.20.*

10, 11, 12, 13. *Railroad Engineering*

Theory, location, construction, and economics of railroad engineering. Lectures, recitations, field work, and drafting. Third term, railroad curves and practical problems. First term, actual location of a line about two miles long, map, and estimate of cost. Second term, railroad track and track work, ties, ballast, rails, frogs, switches, etc.; maintenance of way department; methods of work. First term, earthwork and its cost; rock excavation; tunneling; economics of location. *Professor* Hill *and Messrs.* Rackle *and* Swett.

Three, four (eight hours of field work), three, and three hours. Third, First, Second, and First Terms. Elective for students who have credit for 6 and 9. Third term, *Tu., Wed., Fri., at 8.* First term, *Wed. 8 to 5.* Second term, *Tu., Wed., Fri., at 9.20.* First term, *Tu., Fri., at 1.20; Sat. 9.20 to 11.20.*

14. *Hydraulic Engineering*‡

Consideration of water supply mainly from a sanitary standpoint. A general course designed to give the chemical and biological aspects of water supply without laboratory work. Lectures, recitations, and seminary work. *Professor* Hill.

Three hours. Second Term. Elective for Juniors and Seniors. *Tu., Wed., Fri., at 10.20.*

15. *Geodesy*

Problems in geodetic surveying, with sufficient theory for a proper understanding of the formulae used. Lectures and computations. *Professor* Hill *and Mr.* Swett.

Three hours. One hour of recitation and five hours of computation. Third Term. Elective for students who have credit for 6 and 9, and Astronomy 5. *Th. at 10.20; Fri. 2.20 to 5.20; Sat. 9.20 to 11.20.*

16. *Municipal Improvements*

Economic and social aspects of sewerage, water works, pavements, etc. *Professor* Hill.

Three hours. First Term. Elective for Juniors and Seniors. Offered only if ten or more elect the course. *Mon., Th., Fri., at 9.20.*

17. *Hydraulic Engineering*‡

Supplements Mechanics 2, which gives the theoretical treatment of the subject. Consideration of water supply mainly from an engineering standpoint. Irrigation, pumps, and pumping machinery; construction of dams and reservoirs. Lectures, recitations, and seminary work. *Professor* Hill.

Three hours. Third Term. Elective for students who have credit for Mathematics 6, Mechanics 2, and Mechanical Drawing 1. *Mon., Wed., Fri., at 9.20.*

18. *Sanitary Engineering*‡

Sewerage and house drainage; theory of sewerage, with occasional problems in design; treatment and disposal of sewage; stream pollution; appliances used in construction and maintenance; amount and velocity of flow; house drainage and its appliances; garbage collection and disposal. Lectures, recitations, and seminary work. *Professor* Hill.

Three hours. Third Term. Elective for students who have credit for Mathematics 6, Mechanics 2, and Mechanical Drawing 1. *Mon., Wed., Fri., at 11.20.*

‡ Courses 14, 17, and 18 cover the general subject of sanitation.

19. *Highway Engineering*

Economics and location of country roads; surveys, grades, drainage, and foundations; construction of roads of earth, gravel, and broken stone; economics and design of street pavements of asphalt, brick, cobble-stone, stone-block, and wood-block; methods of testing road materials; roads and pavements in foreign countries. Lectures, recitations, inspection trips, and seminary work. *Professor* BLANCHARD.

Three hours. Third Term. Elective for Sophomores, Juniors, and Seniors. *Mon., Tu., Th., at 8.*

[20, 21, 22. *Laboratory Investigations*] ‡

Use and adjustment of instruments; testing materials; stereotomy. *Professor* HILL.

Three hours. Through the year. Elective for students who have credit for Mathematics 6, Mechanics 1, and Mechanical Drawing 1. Not offered in 1907–8.

23. *Simple Framed Structures*

The standard forms of simple roof trusses; calculation by analytical methods of stresses due to dead, snow, and wind loads; calculation by analytical methods of stresses in Pratt, Howe, Warren, and parabolic trusses due to dead, wind, uniform live, excess panel live, and locomotive wheel loads; miscellaneous trusses, skew bridges, influence lines, cranes, trussed bents, and towers. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

Three hours. First Term. Elective for students who have credit for Mathematics 6, Mechanics 1, and Mechanical Drawing 1 or 2. *Mon., Tu., Th., at 9.20.*

24. *Higher Framed Structures*

General analysis of continuous, movable, cantilever, and suspension bridges and three-hinged, two-hinged, and fixed-end arched ribs; calculations of stresses in continuous and non-continuous center-bearing swing bridges; theorem of three moments; deflection of framed structures; theorem of least work. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

One hour. Second Term. Elective for students who have credit for 23 and are taking 30. *Mon. at 9.20.*

25. *Structural Details*

Riveted joints, roof details, tension members, combined direct and

‡ In 1907–8 students in Civil Engineering will take Mechanical Engineering 22 in place of Civil Engineering 20 and 21.

bending stresses, secondary stresses, columns under direct and eccentric loading; details of wooden structures; plate girder, parabolic highway, pin-connected, and riveted Pratt truss railroad bridges; construction of viaducts and elevated railroads; steel mill-building and high-building construction; comparison of standard structural specifications. Lectures, recitations, and computations. *Professor* BLANCHARD.

Three hours. First Term. Elective for students who have taken or are taking 23. *Mon., Tu., Th., at 8.*

26. *Roof Design and Graphic Statics*

Graphic determination of center of gravity and moment of inertia of combinations of structural shapes; determination by graphical methods of moments in beams and stresses in simple roof trusses; determination of shears, moments, and stresses in simply supported bridge trusses by the use of influence lines; complete design, with shop drawings, of a fifty to seventy foot roof truss; revision and discussion of checked drawings; drawing and computations; inspection trips. *Professor* BLANCHARD *and Messrs.* RACKLE *and* SWETT.

Three hours. One hour of recitation and four hours of drafting. First Term. Elective for students who are taking 23 and 25. *Tu. at 10.20; Mon., Th., 10.20 to 12.20; Wed. 2 to 5.*

27, 28. *Bridge Design*

Determination of stresses in plate girder and trussed bridges by the use of moment and shear diagrams; detail design, with shop drawings, of a plate girder highway bridge; detail design, with shop drawings, of a Pratt truss railroad bridge; general class design of a wooden Howe truss electric railway bridge. Lectures on American and English shop practice; the esthetic design of bridges, design of standpipes and elevated tanks, and American methods of erection of bridges and structures. Lectures, drawing, computations, inspection trips, and seminary work. *Professor* BLANCHARD *and Messrs.* RACKLE *and* SWETT.

Three hours. Six hours of drafting. Second and Third Terms. Elective for students who have taken 23, 25, 26, and are taking 29 and 30. Second term, *Tu., Th., 1.20 to 4.20.* Third term, *Tu. 10.20 to 12.20 and 1.20 to 4.20; Th. at 10.20.*

29. *Reinforced Concrete Structures*

Properties of reinforced concrete; theory and design of reinforced concrete arches in accordance with the elastic theory; theory and design of

reinforced concrete beams, retaining walls, dams, foundations, bridges, and culverts; systems of reinforcement; methods of construction; complete design, with shop drawings, of a fifty-foot reinforced concrete highway arch bridge. Lectures, recitations, drafting, and computations. *Professor* BLANCHARD *and Messrs.* RACKLE *and* SWETT.

Four hours. Two hours of recitation and four hours of drafting. Second Term. Elective for students who have taken 23 and 25 and are taking 27 and 30. *Mon., Th., at 8; Tu., Th., 10.20 to 12.20.*

30. *Masonry Structures*

Stone masonry; static and elastic theory of the masonry arch; design of a stone arch; theory and design of masonry piers, of retaining walls, bridge abutments, and of earth and high masonry dams; complete design, with drawings, of a high masonry dam. Lectures, recitations, drafting, and computations. *Professor* BLANCHARD *and Messrs.* RACKLE *and* SWETT.

Two hours. One hour of recitation and two hours of drafting. Second Term. Elective for students who are taking 24, 27, and 29. *Tu. at 8; Mon. 10.20 to 12.20.*

31. *Foundations*

Soundings and borings, foundation-beds, deposition of concrete under water, timber foundations, coffer dams, open caissons, Cushing cylinder piers, pile formulae, driving and foundations, pneumatic caissons of wood and steel, open dredging, the Poetsch freezing process, foundations in quicksand, foundations for high buildings. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

Two hours. Second Term. Elective for students who have credit for Mechanics 1 or 3. *Tu., Th., at 9.20.*

32. *Engineering Jurisprudence*

Essential elements of a contract, the parties to a contract, considerations, bids and bidders, work for private parties and public work. Employment of engineers, liability of the engineer as a professional man; when his functions are judicial; when he is a public officer. Real property, water rights, ownership, rights of way, boundaries, incorporeal rights, and franchises. Engineering specifications and accompanying documents. Lectures and discussion of written decisions on typical cases assigned each week. *Professor* BLANCHARD.

Two hours. Third Term. Required of candidates for the degree of Bachelor of Science. *Tu., Th., at 9.20.*

34. *Design of Sanitary Works*

Practical applications of the principles of design discussed in courses 17 and 18. Partial design of a sewerage system, water-works system, and filter plant. *Professor* Hill.

One hour. Two hours of drafting and computations. Third Term. Elective for students who have taken or are taking 17 and 18. *Th. at 11.20.*

35. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Civil Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

VII. COMPARATIVE ANATOMY

Albert Davis Mead, Ph.D., *Professor of Comparative Anatomy*

Frederic Poole Gorham, A.M., *Associate Professor of Biology*

Herbert Eugene Walter, Ph.D., *Assistant Professor of Comparative Anatomy*

Philip Henry Mitchell, Ph.D., *Instructor in Physiology*

Frank Taylor Fulton, Sc.B., M.D., *Instructor in Pathology and Histology*

Alice Wilson Wilcox, A.B., *Instructor in Household Economics and General Biology in the Women's College*

Jay Perkins, M.D., *Demonstrator in Anatomy*

1. *Introductory Course*

Introductory to all other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of animals and plants, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Comparative Anatomy 1 and Botany 1 are identical and the classes are combined. *Professor* Gorham.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon., Tu., Th., 2.20 to 4.20.*

2. *Anatomy*

Includes the study of each organ from its primitive form in the lowest animals to its most complex form in the higher animals and in man. Aims to give a thorough knowledge of the structure and meaning of each organ of the animal body. Designed for students of biology and of medicine. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor* WALTER.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors who have credit for 1.

3. *Bacteriology*

The methods of studying bacteria; the preparation of culture media; isolation, systematic study, and determination of unknown species; qualitative and quantitative biological examination of water, milk, air, and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; special work on pathogenic forms. *Professor* GORHAM.

Three hours. Six hours of attendance. Third Term. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Th., at 10.20.*

4. *General Histology*

The technic of preparing animal tissues for microscopical examination. The structure of the fundamental tissues. Special histology of the sense organs. *Professor* MEAD.

Three hours. Six hours of attendance. First Term. Elective for Juniors and Seniors who have credit for 1, and for Sophomores who have credit for 1 and who are not taking any other course in the department.

5. *Special Histology*

The specific microscopical structure of the organs of the body and of the blood. The relation of structure to normal physiological activity and the relation of certain diseases to changes in cellular structure. *Dr.* FULTON.

Three hours. Six hours of attendance. Second Term. Elective for Juniors and Seniors who have credit for 4, and for Sophomores who have credit for 4 and who are not taking any other course in the department.

7. *Chemical Physiology*

The chemistry of the proteids, carbohydrates, and fats; of salivary,

gastric, and pancreatic digestion; of the blood, bile, and urine; the analysis of milk and of water; toxicology. *Dr.* MITCHELL.

Three hours. Six hours of attendance. First and Second Terms. Must be preceded by Chemistry 2. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

8. *Physical Physiology*

The physiology of muscle and nerve; the physics and physiology of the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses. *Dr.* MITCHELL.

Three hours. Six hours of attendance. Third Term. Must be preceded by 7. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

[9. *Anatomy of the Nervous System*]

The gross anatomy and the microscopic structure of the nervous system in vertebrates, especially in man; phylogeny, embryology, and physiology of the nervous system. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1. Not offered in 1907–8. To be offered in 1908–9.

10. *Comparative Embryology*

Laboratory work. Principles of embryological development and of heredity, illustrated by the fertilization and cleavage of the egg, metamorphosis, and organ formation. Special attention given to the origin and development of the human body. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1. Not to be offered in 1908–9.

11. *Biological Theories and Biological Problems*

Seminary course. *Professor* MEAD.

One to three hours. Through the year. Elective for Graduates.

12. *Bacteriology, advanced course*

Laboratory work and seminary. *Professor* GORHAM.

Three to twelve hours. Through the year. Elective for Juniors and Seniors who have credit for 3, and for Graduates.

13. *Physiology, advanced course*

Laboratory work and seminary. *Dr.* MITCHELL.

Three to twelve hours. Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology.

14. *Human Anatomy*

Laboratory instruction. A course in practical dissection. Students also have an opportunity to attend certain operations at the hospital and to be present at autopsies. *Dr.* PERKINS.

Three hours. Through the year. Elective for Graduates.

15. *Special Advanced Work*

Research work arranged to meet the requirements of individual students. *Professor* MEAD.

Three to twelve hours. Through the year. Elective for Graduates.

16. *Evolution*

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Lectures and assigned reading. *Professor* MEAD.

Three hours. Third Term. Elective for Juniors and Seniors.

18. *Ornithology*

A study of birds regarded as a group of living animals in relation to their environment. Lectures and field identification of wild birds during their spring migration. *Professor* WALTER.

One hour. Two hours of attendance. Third Term. Elective for Undergraduates.

VIII. ECONOMICS‡

HENRY BRAYTON GARDNER, PH.D., *Professor of Political Economy*
WILLIAM KIRK, PH.D., *Assistant Professor of Political Economy*

1. *Economics, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* GARDNER.

Three hours. Second Term. Sophomore, Junior, or Senior year. Must be preceded by Political Science 1. Required of candidates for the degree of Bache-

‡ The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

lor of Arts; elective for other students who have credit for Political Science 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2.* *General Economics*

The development and significance of the more important elements in the existing industrial organization; the principles governing the production, exchange, distribution, and consumption of wealth; the more important practical problems of economic life. First and third terms, *Professor* GARDNER. Second term, *Professor* KIRK.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

3. *Money and Banking*

Principles of money and banking; recent monetary and banking history, particularly of the United States; monetary and banking systems of leading industrial nations; present monetary and banking problems. *Professor* GARDNER.

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1908–9. *Wed., Fri., Sat., at 11.20.*

[4. *Public Finance*]

First term, general principles of public finance; revenues and expenditures of leading industrial nations. Second term, financial history of the United States. Third term, local finance: revenues, expenditures, and financial systems of American states and cities. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1907–8. To be offered in 1908–9.

5. *History and Present Tendencies of Economics*

Early economic theories: a critical examination of the theories of the early schools of economists, especially the physiocrats and the early English school, with particular attention to the relation between economic thought and economic life and practice. Recent economic theories: a study of the tendencies of the historical school, the Austrian school, and recent English and American writers. The growth of the principle of monopoly, its influence on the production and distribution of wealth and on the economic well-being of society. *Professors* GARDNER *and* KIRK.

Three hours. One session of an hour and a half weekly. Through the year. Elective for Seniors and Graduates who have credit for 2.

6. *The Labor Movement*

History and analysis of the trade-union movement; growth of collective bargaining; labor problems in the United States. *Professor* KIRK.

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

7. *Socialism*

A brief review of the historically important socialistic schemes; mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements. *Professor* KIRK.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

8. *Industrial Corporations*

Development of the corporate form of business organization; its effects; the problems to which it gives rise. Special emphasis on the recent movements toward combination, and toward state control of corporations, particularly quasi-public corporations. *Professor* GARDNER.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1908–9. *Wed., Fri., Sat., at 11.20.*

[9. *The Tariff*]

The arguments for free trade and protection in relation to the principles of international trade; the history of tariff legislation and its effects in the United States. *Professor* KIRK.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. Not offered in 1907–8. To be offered in 1908–9.

10, 11, 12. *Industrial History*

First term, the chief stages in the development of the industrial life of England, with special emphasis on the origin and development of the existing form of industrial organization. Second term, the more important aspects of the industrial development of the colonies and the United States to 1860. Third term, the growth, organization, and geographical distribution of the main branches of industry since 1860; the relation of the industrial life of the United States to that of the world at large. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Tu., Th., Sat., at 12.20.*

13. *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Geology 12. *Professors* Brown *and* Kirk.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods. *Professors* Gardner *and* Kirk.

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected independently.

IX. ENGLISH‡

Walter Cochrane Bronson, A.M., Litt.D., *Professor of English Literature*

Lindsay Todd Damon, A.B., *Professor of Rhetoric*

Albert Knight Potter,† A.M., *Associate Professor of the English Language*

George Wyllys Benedict, Ph.D., *Associate Professor of English*

Thomas Crosby, A.M., *Assistant Professor of English and Public Speaking*

Henry Barrett Huntington, A.B., *Assistant Professor of English*

Howard Bristol Grose, Jr., Ph.B., *Instructor in English*

William Thomson Hastings, A.M., *Instructor in English*

George Rupert MacMinn, A.B., *Instructor in English*

Robert Bradford Jones, A.B., *Assistant in English*

Stanley Bates Harkness, A.B., *Assistant in English*

Harvey McLeod Kelley, A.B., *Assistant in Public Speaking*

1. *Rhetoric and Composition*

Lectures and recitations upon the fundamental laws of style, with

‡ Credit for English 1 is a prerequisite for admission to all other courses in English. The requirement in English Literature for the degree of Bachelor of Arts may be satisfied by taking any one of the courses from 10 to 23 inclusive.

† On leave of absence during the academic year 1907–8.

special emphasis upon usage; prescribed reading and themes. Designed to give the student a clear and correct style and some critical standards. *Professors* DAMON, BENEDICT, *and* HUNTINGTON, *Messrs.* GROSE, HASTINGS, MACMINN, JONES, *and* HARKNESS.

Three hours. Through the year. Required of all Freshmen. *1st, 2d, 3d, and 7th div. Fri. at 12.20; Tu., Th., at 11.20. 4th, 5th, 6th, and 8th div. Mon., Wed., Fri., at 12.20.*

2.* *English Composition, second course*

Lectures, recitations, and prescribed reading; fortnightly themes and other written exercises. Intended to supplement the training given in 1, and to develop further the power of exact and lucid statement. *Mr.* HASTINGS.

Three hours. Through the year. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

3.* *English Composition, advanced course*

Frequent practice in composition and criticism. Intended to develop ease of style and clarity and vigor of thought. *Professor* DAMON.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores who have attained the grade of C in 1. With the consent of the instructor the course may be repeated. *Mon., Wed., Th., at 10.20.*

4. *Argumentative Composition*

Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. Intended to develop the power of handling argumentative topics cogently and persuasively. *Professor* HUNTINGTON.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.20.*

5. *Argumentative Composition*

The principles and forms of brief-drawing and forensic writing. Lectures, written exercises, briefs, and forensics. Intended to furnish a more rapid training than 4, for students who wish to begin debate as early as possible or to go quickly over the fundamentals of argumentative composition. *Professor* HUNTINGTON.

Three hours. Two hours of attendance. First Term. Elective for Juniors and Seniors. Not elective for students who have taken 4. *Mon. at 3.20; Fri. at 2.20.*

6.* *Debate*

Intended to train students in correct and vigorous oral presentation of ideas. *Professor* HUNTINGTON, *with the coöperation of the Professors of Economics, Social and Political Science, History, and Public Speaking.*

Three hours. Second and Third Terms. Elective for a limited number of Juniors and Seniors who have credit for 5 or for one or more terms of 4. With the consent of the instructor, the course may be repeated. *Mon. 3.20 to 5.20; Fri. 2.20 to 4.20.*

7.* *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor* CROSBY.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Fri., Sat., at 11.20.*

[8. *Public Speaking, advanced course*]

Reading the Bible, liturgy, and hymns. *Professor* CROSBY.

One hour. Two hours of class-room work. First Term. Elective for a limited number of Seniors. Not offered in 1907–8.

[24. *Public Speaking, advanced course*]

The occasional address. Practice in the composition and delivery of the more common forms of public discourse, with some attention to voice culture. *Professor* CROSBY.

Three hours. Through the year. Elective for a limited number of Juniors and Seniors who have credit for 7. Not offered in 1907–8.

9. *Old English*

Essentials of Anglo-Saxon grammar; prose selections; Béowulf. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 3.20.*

10. *Chaucer*

Careful reading of most of Chaucer's works; study of Middle English grammar, with some attention to the development of Modern English. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 4.20.*

11. *English Literature from the Beginning to the Present Time*
An outline course in the history of English literature, with reading and study of the greater writers. *Professor* BRONSON.
Three hours. Through the year. Elective for Sophomores. *Tu., Th., Sat., at 12.20.*

[12. *English Literature, exclusive of the Drama, from 1400 to 1600*]
Medieval literary forms and the transition to the modern period: romance, ballad, allegory, satire, Elizabethan novels and lyrics. *Professor* BENEDICT.
Three hours. Through the year. Elective for students who have credit for 10 and one other of the courses from 9 to 23 inclusive. Not offered in 1907–8.

[13. *History of the Drama in England*]
The drama as a literary type and its history in England to 1642. *Professor* POTTER.
Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1907–8.

18. *The English Drama*
The history of the English drama from Marlowe to the present time, with reading and study of the greater playwrights. *Mr.* GROSE.
Three hours. Through the year. Elective for Juniors and Seniors. Not to be offered in 1908–9. *Mon., Tu., Th., at 11.20.*

[14. *Shakspere*]
Careful study of a few plays with special attention to exact interpretation. *Professor* POTTER.
Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1907–8.

15. *Shakspere*
Shakspere as dramatist and poet; reading of all the plays. *Professor* CROSBY.
Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Th., Sat., at 12.20.*

16. *English Literature exclusive of the Drama from 1600 to 1660*
The decline of the Elizabethan spirit; Puritanism and Anglicanism in literature; the "metaphysical" and mystical poets; the cavalier

lyrists; all the English poems and some of the prose works of Milton. *Professor* Bronson.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not to be offered in 1908–9. *Wed., Fri., at 11.20, Sat. at 9.20.*

[17. *English Literature from 1660 to 1798*]

The Restoration drama; the classical school; development of the essay and the novel; the beginnings of romanticism. *Professor* Bronson.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1907–8.

19. *English Literature from 1798 to 1832*

The romantic revolt in its critical and imaginative phases; influence of the French revolution; individualism in form and spirit. *Mr.* Hastings.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.20.*

20. *English Literature from 1832 to 1892*

The Victorian period; modifications of romanticism in prose and poetry; realism; influence of science and democracy; tendencies at the end of the century. *Professor* Damon.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Fri., Sat., at 11.20.*

[21. *Victorian Poets*]

A detailed study of Tennyson, Browning, Arnold, Clough, Rossetti, Morris, and Swinburne. *Professor* Crosby.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1907–8.

50. *The Modern Novel*

A study of the currents of modern life and thought as expressed in some of the best novels of the nineteenth century. Forms with French 50 and German 50 a continuous study of some of the chief phases of European literature since Shakspere. *Professor* Damon.

Three hours. Third Term. Elective for Sophomores and Juniors who have taken French 50 and German 50. *Tu., Wed., Sat., at 9.20.*

22. *American Literature*

American literature from the beginning in its relation to American life and to English literature. *Professor* BRONSON.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for 11, 19, or 20. Not to be offered in 1908–9. *Mon., Th., Fri., at 4.20.*

23. *Seminary in English Literature*

Subject for 1907–8: Studies in medieval romance and allegory. *Professor* BENEDICT.

Three hours. Two hours of attendance. Through the year. Elective for Graduates, and for a limited number of Seniors who have attained the grade of C in two of the courses from 9 to 22 inclusive.

X. GEOLOGY ‡

CHARLES WILSON BROWN, A.M., *Assistant Professor of Geology*

3. *General Geology*

A discussion of the origin, weathering, and metamorphism of rocks; of other agencies that have affected the formation and development of the earth and its crust; of certain land-forms and the stages of their development; a review of earth changes, with special reference to the development of the North American continent; the types of life characteristic of the different periods, and the principles of organic evolution they illustrate. Lectures, illustrated by models and lantern views. One-third of the first term will be devoted to laboratory work. Two field trips will be taken in the first term and three in the third term.

Three hours through the year. Elective for Sophomores who do not elect 1, and for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

6. *Dynamical and Structural Geology*

An advanced course dealing with sedimentary formations old and new; with mineral veins, folds, faults, mountain-making, and other

‡ Students who wish a general view of the geologic processes concerned in the development of the earth and its life, should take course 3. Those who contemplate teaching physical geography should take also courses 10, 12, 9, and 8. Students who desire to specialize in mining engineering, geology, or geography, in order to teach or to obtain appointment on government or state geological surveys, are advised to elect first the work in mineralogy and to follow it with courses 3, 11, 4, 9, 8, 6, 10, and 12, approximately in the order given.

characteristics of crustal movements; and the nature and results of igneous and metamorphic activities.

Three hours. One term. Offered if applied for. Elective for students who have credit for 3 or 16.

1. *Mineralogy*

Crystallography. The more common minerals; their recognition and determination; their occurrence in rocks; the physical properties of minerals; blowpipe analysis. Lectures and laboratory work.

Three hours. Through the year. Elective for Sophomores who do not elect 3, and for Juniors and Seniors. *Tu. at 11.20; Th. 2.20 to 4.20.* Two laboratory hours to be arranged with the instructor. Not to be offered in 1908–9. Alternates with 4.

[4. *Petrography*]

A study of the optical properties of minerals; determination of minerals and rocks by means of the petrographic microscope; a discussion of the fundamental principles of the origin and classification of rocks. Lectures and laboratory work.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have taken or are taking 3. Students intending to take this course are advised to take Physics 5 in preparation. Two laboratory hours to be arranged with the instructor. Not offered in 1907–8. Alternates with 1.

9, 8, 11. *Field Geology*

Geological maps, their use and methods of construction; practice in the actual working out of the surface geology and stratigraphy of an assigned definite area. Reports and thesis.

Three hours. Through the year. One conference hour to be arranged with the instructor and the equivalent of six hours' work in the field-area. Elective for Juniors, Seniors, and Graduates. The first term may be taken independently and is elective for students who have credit for 3 or 16; the first and second terms may be elected as a two-term course; the third term may be elected separately by students who are taking 3 or 16.

17, 16. *Engineering Geology*

Lectures; laboratory and field work. A discussion of the geologic processes and results that are closely related to engineering problems. The first term includes laboratory work upon the rock-forming minerals, typical rocks, and building stones. Two field trips in the first term and three in the third term are required, with detailed notes of the regions visited.

Two hours (four hours of attendance), three hours. First and Third Terms. Required in the Junior year for the degree of Bachelor of Science in Civil Engineering. Not elective. *Tu. 9.20 to 11.20; Fri. 10.20 to 12.20; Mon., Wed., Fri., at 10.20.*

[10. *Physiography*]

The ocean; the atmosphere; land forms, their classification, origin, growth, decay, and geographical distribution. With special reference to the influence of physiography upon the economic development of the United States. Lectures and laboratory work.

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1907–8.

12. *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Economics 13. *Professors* Brown *and* Kirk.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

13. *Physiographic Seminary*

Discussions and reports on the more advanced problems of Physiography.

Three hours. One hour of attendance. Through the year; or, by special arrangement with the instructor, the course may be taken for a shorter period. Elective for Graduates, for Undergraduates who have passed the first term's work in course 12, and for others who have had sufficient preliminary training in Physiography.

14. *Geologic Investigation*

Research work in the field and the laboratory, arranged to meet the needs of individual students.

Through the year; or, by special arrangement with the instructor, the course may be taken for a shorter period. Elective for qualified Graduates and for from one to six hours for approved Undergraduates.

XI. GERMANIC LANGUAGES AND LITERATURES

Camillo von Klenze, Ph.D., *Professor of the Germanic Languages and Literatures*

Asa Clinton Crowell, Ph.D., *Associate Professor of the Germanic Languages and Literatures*

Johannes Benoni Eduard Jonas, Ph.D., *Assistant Professor of the Germanic Languages and Literatures*

Robert McBurney Mitchell, A.B., *Instructor in German*

1. *Introductory Course*

Reading, grammar, composition, conversation, dictation, sight reading. *Professor* Crowell *and Mr.* Mitchell.

Three hours. Through the year. Required of all students who did not present German for admission. *1st div. Tu., Wed., Sat., at 9.20; 2d div. Mon., Th., Fri., at 9.20; 3d div. Tu., Th., Sat., at 12.20; 4th div. Mon., Tu., Th., at 2.20.*

2. *Intermediate Course*

Reading of modern German stories (Batt and Allen's *German Stories*, volumes 1 and 2), lyrics (von Klenze or Hatfield), and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Professor* Jonas *and Mr.* Mitchell.

Three hours. Through the year. Required of all Freshmen who presented elementary German for admission. Not elective for students who have taken German in college. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Fri., Sat., at 10.20; 3d div. Mon., Wed., Th., at 10.20.*

3, 4, 5. *Reading Course*

Reading of modern German stories (Batt and Allen's *German Stories*, volume 2), lyrics (von Klenze or Hatfield), and two dramas illustrating respectively the classical and the modern period (Schiller's *Maria Stuart* and Hebbel's *Agnes Bernauer*). Review of grammar; composition; conversation based upon the texts read. *Professors* von Klenze *and* Crowell.

Three hours. Through the year. Elective for students who have credit for 1. *1st div. Mon., Wed., Th., at 10.20; 2d div., Wed., Fri., Sat., at 11.20.*

6. *Modern Prose*

Aims to train the student in reading, speaking, writing, and understanding modern German. Reading of texts selected from fiction, history, and science (Liliencron, Keller, Freytag, Helmholtz, etc.), and a

text (such as Mosher's *Willkommen in Deutschland*) to introduce the student to the actual language of modern daily life. Talks in German; oral and written reports in German; letter-writing, composition, and conversation. *Professor* JONAS.

Three hours. Through the year. Elective for students who have credit for 1 or 2, and for students who presented advanced German for admission. *Tu., Fri., Sat., at 10.20.*

7. *Advanced Course in Standard Authors, Classical and Modern*

One drama of Goethe's, Grillparzer's *Hero und Leander,* Hebbel's *Herodes und Mariamne,* Keller's *Romeo und Julia auf dem Dorfe,* Sudermann's *Frau Sorge.* Talks in German on the history of German literature; oral and written reports in German. *Professor* JONAS.

Three hours. Through the year. Elective for students who have credit for 2, and for students who presented advanced German for admission. *Mon., Tu., Th., at 11.20.*

23, 24, 25. *German Lyrical Poetry*

Introduces the student to the various aspects of the inner life of the German people as reflected in the lyrical poetry of the last two centuries. Lectures in German; oral and written reports in German. *Professor* JONAS.

Three hours. Through the year. Elective for students who have credit for 5 or 7, or who presented advanced German for admission; also for other approved students. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

[26, 27, 28. *The German Short Story*]

Kleist, Ludwig, Storm, C. F. Meyer, Keller, Rosegger. A study of the origin of the short story and its development in the nineteenth century, with frequent references to its chief representatives in France, England, and America. Lectures in German; oral and written reports in German.

Three hours. Through the year. Elective for students who have credit for 2 or 5. Each term may be elected independently. Not offered in 1907–8.

[29, 30, 31. *The German Drama of the Nineteenth Century*]

Kleist, Grillparzer, Hebbel, Hauptmann, and Sudermann. A study of the development of the German drama from waning romanticism to realism, with frequent references to the chief representatives of the modern drama in other countries.

Three hours. Through the year. Elective for students who have credit for 5, 6, or 7. Each term may be elected independently. Not offered in 1907–8.

32. *Lessing and Schiller*

A study of the life and representative works of each author and the problems they present. *Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5 or 7. *Tu., Wed., Sat., at 9.20.*

[10. *Goethe's Faust: Parts* 1 *and* 2]

With some notice of recent dramas of kindred interest. *Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5 or 7. Not offered in 1907–8.

33, 34, 35. *Goethe: A Study of His Life and Works*

Lectures in German; reports on assigned topics; extensive reading. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, or 16. *Tu., Th., Sat., at 12.20.*

[12, 13, 14. *Outline History of German Literature*]

Aims to acquaint the student with the most important movements in the evolution of German literary life. Lectures in German; reports on assigned topics; extensive reading. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, or 16. Not offered in 1907–8.

[16. *Gothic and Old High German*]

The Gothic language with reading of extracts in Streitberg's *Gotisches Elementarbuch* or Braune's *Gotische Grammatik*. Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*.

Three hours. Through the year. Elective for Graduates. Not offered in 1907–8.

17. *Germanic Mythology*

Primitive Germanic religion, customs, and ideas, in their relations to German literature. Discussions based on E. Mogk's *Germanische Mythologie*. *Professor* CROWELL.

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu. at 3.20.*

20. *Old Norse*

Holthausen's *Altisländisches Elementarbuch;* Wilken's *Prosaische Edda; Die Lieder der Edda,* edited by Sijmons and Gering. *Professor* Crowell.

Two hours. Through the year. Elective for Graduates. Students electing Old Norse should also take Germanic Mythology. *Mon., Th., at 4.20.*

[15. *Middle High German*]

The language of the Middle High German period, including an introduction to Germanic philology. Michel's *Mittelhochdeutsches Elementarbuch; Das Nibelungenlied. Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, 16, or 18. Not offered in 1907–8.

36. *Seminary in German Literature*

Aims to give training in modern methods of investigation and criticism. To be carried on in German. Subject for 1907–8: Problems affecting the sources, the evolution, and the technique of the short story of the nineteenth century. *Professor* von Klenze.

Three hours. One session weekly. Through the year. Elective for approved students.

50. *The Classical Literature of Germany in English*

A study of Lessing, Schiller, and Goethe, by means of English translations, in the light of the German culture of the eighteenth century, with supplementary lectures on the German drama of the nineteenth century. *Professor* von Klenze.

Three hours. Second Term. Elective for Sophomores and Juniors who have taken French 50. *Tu., Wed., Sat., at 9.20.*

XII. GREEK LITERATURE AND HISTORY‡

James Irving Manatt, Ph.D., LL.D., *Professor of Greek Literature and History*

Francis Greenleaf Allinson, Ph.D., *David Benedict Professor of Classical Philology*

Lida Shaw King, A.M., *Assistant Professor of Classical Philology*

David Wilkinson Smith, A.M., *Assistant in Greek*

A, B, C. *Elementary Course*

Designed to cover as much as possible of the entrance requirements

‡ Courses 1, 2, 3 are a prerequisite for the more advanced courses in this department.

in Greek, and thus to enable a student to take 1, 2, and 3 in the following year if he completes by private study before the opening of the first term the entire requirement in the *Anabasis*, and before the opening of the third term the entire requirement in Homer. *Mr.* SMITH.

Three hours. Through the year. Elective for students who did not present elementary and advanced Greek for admission. *Tu., Th., Sat., at 12.20.*

1. *Plato*

Plato's *Apology* and *Crito*, with select orations of Lysias for sight reading. *Professor* ALLINSON.

Three hours. First Term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Tu., Th., Sat., at 12.20.*

2. *Homer*

The *Odyssey*, four books; rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. *Professor* MANATT.

Three hours. Second Term. Elective for students who have credit for 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Tu., Th., Sat., at 12.20.*

3. *Lysias or Sophocles*

Selections from Lysias or the *Antigone* of Sophocles; selections for sight reading from Herodotus. *Professor* ALLINSON.

Three hours. Third Term. Elective for students who have credit for 1 and 2. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Tu., Th., Sat., at 12.20.*

5. *Greek Lyric Poets*

The chief remains of Greek lyric poetry from Alkman to Timotheos (not including Pindar). *Professor* MANATT.

Three hours. First Term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

4. *Lucian*

Selected writings. *Professor* ALLINSON.

Three hours. Second Term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

6. *Dramatic Poets*

Lectures on the Greek drama. The *Prometheus* of Aeschylus; the *Oedipus Tyrannus* of Sophocles. *Professor* ALLINSON.

Three hours. Third Term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

7. *Plato and Aeschylus*

Republic, book x; selections from books i-ix; *Agamemnon. Professor* Allinson.

Three hours. First Term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

8. *Homer*

Advanced course in the *Iliad* or the *Odyssey,* intended to serve as an introduction to prehistoric archaeology and as a preparation for teaching Homer. *Professor* Manatt.

Three hours. Second Term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

[12. *Thucydides*]

The Sicilian expedition. *Professor* Manatt.

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1907–8.

[9. *Theocritus and Herondas*]

Twenty *Idylls* of Theocritus and selected *Mimes* of Herondas. *Professor* Manatt.

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1907–8.

[10. *The Drama*]

The *Medea* of Euripides and the *Frogs* of Aristophanes, with rapid reading of the *Seven against Thebes* of Aeschylus for literary criticism. *Professor* Allinson.

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1907–8.

[11. *Herodotus*]

History of the Persian wars. *Professor* Manatt.

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1907–8.

[13. *Lucian*]

Advanced course. *Professor* Allinson.

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1907–8.

[14. *Aeschines and Demosthenes*]

Speeches on the Crown; study of the Macedonian period and of Athenian political life. *Professor* MANATT.

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1907–8.

15. *Pindar*

Select Odes. *Professor* MANATT.

Three hours. Third term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

[16, 17, 18. *Homer*]

The *Odyssey;* portions of the *Iliad* and the *Hymns* in the original; the remainder of the poems in translation. *Professor* MANATT.

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1907–8.

19, 20. *Greek Composition*

Professor ALLINSON.

One hour. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors. *Fri. at 2.20.*

21, 22. *Modern Greek*

Introduction to the language; readings from living Greek authors and Greek newspapers. *Professor* MANATT.

One hour. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors.

23, 24, 25. *Greek Seminary*

Subjects for 1907–8: Homer's *Odyssey,* I-XII; the *Oresteia* of Aeschylus or Greek epigraphy (Roberts and Gardner); Comparative philology (see Indo-European Philology 4). *Professors* MANATT (23), *and* ALLINSON (24, 25).

One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

[26. *Attic Orators*]

Isaeus; Greek historical inscriptions. *Professor* MANATT.

Two hours. First Term. Elective for Graduates and approved Seniors. Not offered in 1907–8.

[27, 28. *Homer and Mycenaean Archaeology*]

The Achillean books of the *Iliad* and the Ithacan books of the *Odyssey* studied in the light of recent archaeological discoveries. *Professor* MANATT.

Two hours. First and Second Terms. Elective for Graduates and approved Seniors. Not offered in 1907–8.

[29. *Demosthenes*]

Private speeches, selected to illustrate the workings of Athenian institutions. *Professor* MANATT.

Three hours. First Term. Elective for Graduates. Not offered in 1907–8.

30, 31, 32. *Hellenistic Greek*

Characteristics of Hellenistic Greek (ἡ κοινή). The Apologies of Justin Martyr, or selections from the New Testament. This course is the same as course 7, 8, 9 offered by the department of Biblical Literature and History. First and third terms, *Professor* FOWLER. Second term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

[33. *Greek Life*]

The private and public life of the Greeks studied in the light of their literature and monuments. Syllabus, lectures, and prescribed reading, with frequent reports, written tests, and essays. No knowledge of Greek or Latin required. The course is continued in the second and third terms as Latin 28, 29. The three terms together constitute the course in the History of Greek and Roman Life and Institutions, which alternates with Greek 34, Latin 30, and Indo-European Philology 1. *Professor* MANATT.

Three hours. First Term. Elective for Freshmen and Sophomores. Not offered in 1907–8.

34. *Greek Literature*

A brief history of the literature of the Greeks from Homer to Theocritus, with study of the masterpieces in the best English translations. No knowledge of Greek or Latin required. This course is continued in the second and third terms as Latin 30 and Indo-European Philology 1. The three terms together constitute the course in Greek and Roman Literature and the History of Language, which alternates with Greek 33, Latin 28, 29. *Professor* ALLINSON.

Three hours. First Term. Elective for Freshmen and Sophomores. *Mon.*, *Tu.*, *Th.*, *at 11.20.*

XIII. HISTORY ‡

WILLIAM MACDONALD, PH.D., LL.D., *Professor of History*
WILFRED HAROLD MUNRO, A.M., *Professor of European History*

1. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time of the barbarian invasions to 1789. A narrative text-book supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. *Professor* MACDONALD.

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in either the Sophomore or the Junior year. *Mon.*, *Tu.*, *Th.*, *at 2.20.*

2. *Spanish History*

Development of Spanish institutions, political and social; rise and greatness of Spain as a European power; its colonial system; its position with reference to the Reformation and the subsequent religious wars. *Professor* MUNRO.

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. *Tu.*, *Fri.*, *Sat.*, *at 10.20.*

3. *Islam and the Crusades*

Social and political conditions in Europe and the East at the beginning of the Crusades; organization and internal condition of Islam; effect of the Crusades on the thought, life, and political development of Europe. *Professor* MUNRO.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. *Tu.*, *Fri.*, *Sat.*, *at 10.20.*

4. *Period of the Renaissance*

Preparation for the Renaissance in the intellectual and social life of Europe; spread of the revival; connection between the Renaissance and the Reformation; artistic and literary aspects of the movement. *Professor* MUNRO.

‡ The elective courses in History are regularly open only to those who have credit for 1; but, by special permission of the instructor, elective courses may be taken by Juniors who are at the same time taking 1.

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

5. *Period of the Reformation*

Early movements of dissent from the Roman Church; the Protestant revolt in Germany, Switzerland, France, and England; the political and social aspects of the Reformation; the religious wars; the effect on religious belief and church organization. *Professor* MUNRO.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

6. *The French Revolution*

Rise and progress of the Revolution in France; political and social conditions in Europe 1789–1815; permanent results of the Revolution, particularly its effect on political thought and practice. *Professor* MUNRO.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

7. *European History since 1815*

Political development of the more important states and their diplomatic relations; the revolutions of 1830 and 1848; the free-trade movement in England; the achievement of Italian unity; the founding of the German Empire; the Franco-Prussian war; the Eastern question, etc. *Professor* MUNRO.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

8, 9, 10. *English Constitutional and Political History to 1689*

Formation of the English constitution; establishment and growth of the church; relations with Scotland and Ireland; the Reformation; the Puritan Revolution. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 2.20.*

[11, 12, 13. *English Constitutional and Political History since 1689*]

Foreign relations; the development of party government and the cabinet system; the social and political changes of the nineteenth century. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1907–8. To be offered in 1908–9.

14, 15, 16. *Seminary in European History*

Discussion of assigned subjects, reports of reading and investigation, and similar exercises. *Professor* MUNRO.

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates and approved Seniors. Each term may be elected independently.

19, 20, 21. *Constitutional and Political History of the United States*

An advanced course covering the period from 1783 to the present time. Intended primarily for those who wish to specialize in American history or who expect to study law. *Professor* MACDONALD.

Three hours. Two meetings a week. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., at 12.20.*

22, 23, 24. *Seminary in American History*

Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. For 1907–8 the subjects are: First term, The Second Continental Congress. Second term, The foreign relations of the United States under Washington and Adams. Third term, Topics in the social and economic history of the United States, 1815–45. *Professor* MACDONALD.

Three hours. One hour of attendance. Through the year. Elective for Graduates and approved Seniors. The course presupposes an acquaintance with 27, 28, 29 or 19, 20, 21, but by special permission it may be taken by those who are taking 27, 28, 29 or 19, 20, 21. Each term may, by the consent of the instructor, be elected independently.

27, 28, 29. *American History*

A general course covering the whole period from the beginnings of English colonization to the end of the Civil War. Lectures, supplemented by assigned reading, study of the texts of representative documents, and special reports. Intended as an introduction to the advanced courses in American history, and for those students who wish only a general survey of the subject or who expect to teach history. *Professor* MACDONALD.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Wed., Fri., Sat., at 11.20.*

[25.* *Principles of Historical Criticism and Research*]

First term, the general principles of historical criticism and the literature of historical theory; Langlois and Seignobos's *Introduction to*

the Study of History is used as a manual. Second and third terms, Historical bibliography, the periods chosen varying from year to year. *Professor* MacDonald.

One hour. Through the year. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in History. Not offered in 1907–8.

XIV. INDO-EUROPEAN PHILOLOGY

Francis Greenleaf Allinson, Ph.D., *David Benedict Professor of Classical Philology*

1. *General Introduction to the Study of Language*

Outline of the history of language; the Indo-European family. Adapted for students of ancient or modern languages. A continuation of Greek 34, Latin 30. The three terms together constitute the course in Greek and Roman Literature and the History of Language.

Three hours. Third Term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

4. *Seminary in Comparative Philology*

For advanced students in Greek and Latin.

One two-hour session weekly. Third Term. Elective for Graduates and approved Seniors.

7, 8, 9. *Sanskrit, elementary course*

Whitney's *Grammar;* Lanman's *Reader;* selections from the *Vedic Hymns.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

[10, 11, 12. *Sanskrit, advanced course*]

Vedic Hymns, and other selections.

One hour. Through the year. Elective for students who have credit for 7, 8, 9. Not offered in 1907–8.

XV. MATHEMATICS‡

NATHANIEL FRENCH DAVIS,† A.M., LL.D., *Professor of Pure Mathematics*

HENRY PARKER MANNING, PH.D., *Associate Professor of Pure Mathematics*

FREDERICK SLOCUM, PH.D., *Assistant Professor of Astronomy*

ROLAND GEORGE DWIGHT RICHARDSON, PH.D., *Assistant Professor of Pure Mathematics*

CLINTON HARVEY CURRIER, A.M., *Instructor in Mathematics*

HENRY H. CONOVER, PH.D., *Instructor in Mathematics*

3. *Algebra*

Professors MANNING, SLOCUM, *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Four hours. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., at 9.20.*

1. *Geometry, Solid and Spherical*

Professors MANNING, SLOCUM, *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., at 9.20.*

2. *Trigonometry*

Professors MANNING, SLOCUM, *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., at 9.20.*

4. *Analytic Geometry*

Dr. CONOVER.

Three hours. First and Second Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry

‡ The Undergraduate courses 1–11 should be taken in the order in which they are printed. Courses 12, 13, 14 may be taken at any time after the Freshman year. Courses 17–21 are designed for students who are taking or who intend to take engineering courses. Courses 22–26 are designed for Graduates: two or three of these courses are offered each year according to the needs of the students. For those who have taken all of them, other courses can usually be arranged.

† On leave of absence during the academic year 1907–8.

and Plane Trigonometry for admission. Elective for students who have credit for 1, 2, 3. *Mon., Wed., Sat., at 8.*

5. *Differential Calculus*

Professor RICHARDSON.

Three hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 4. *Mon., Wed., Sat., at 8.*

6. *Integral Calculus*

Professor SLOCUM.

Three hours. First Term. Elective for students who have credit for 5. *Tu., Th., Sat., at 12.20.*

7. *Applications of the Differential Calculus*

Mr. CURRIER.

Three hours. Second Term. Elective for students who have credit for 5 and 6. *Tu., Th., Sat., at 12.20.*

8. *Applications of the Integral Calculus*

Professor MANNING.

Three hours. Third Term. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

9, 10, 11. *Differential Equations*

Professor RICHARDSON.

Three hours. Through the year. Elective for students who have credit for 6 or 21. First Term required of candidates for the degree of Bachelor of Science in Electrical Engineering. *Tu., Th., Sat., at 12.20.*

12. *Determinants and Theory of Equations*

Professor MANNING.

Three hours. Second Term. Elective for students who have credit for 3 or 16.

[13. *Modern Methods of Analytic Geometry*]

Professor MANNING.

Three hours. Third Term. Elective for students who have credit for 4 or 19. Not offered in 1907–8.

14. *Solid Analytic Geometry*

Professor MANNING.

Three hours. Third Term. Elective for students who have credit for 4 or 19.

15. *Spherical Trigonometry*

Dr. CONOVER.

One hour. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 2 and who have not taken Spherical Trigonometry. *Mon., Th., at 9.20.*

16. *Algebra*

Dr. CONOVER.

One hour. First Term. Two hours, Second and Third Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. *Mon., Th., at 9.20.*

17. *Algebra*

Professors MANNING *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Six hours. First Term. Required of candidates for the degree of Bachelor of Science. *2d div. Mon., Tu., Wed., Th., Sat., at 12.20, Fri. at 2.20; all other divisions Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

18. *Trigonometry, Plane and Spherical*

Professors MANNING, SLOCUM, *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Six hours. Second Term. Required of candidates for the degree of Bachelor of Science. *2d div. Mon., Tu., Wed., Th., Sat., at 12.20, Fri. at 2.20; all other divisions Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

19. *Analytic Geometry*

Professors SLOCUM *and* RICHARDSON, *Mr.* CURRIER, *and Dr.* CONOVER.

Six hours. Third Term. Required of candidates for the degree of Bachelor of Science. *2d div. Mon., Tu., Wed., Th., Sat., at 12.20, Fri. at 2.20; all other divisions Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

20. *Differential Calculus*

Professor SLOCUM *and Mr.* CURRIER.

Five hours. First Term. Required of candidates for the degree of Bachelor of Science. *Tu., Wed., Th., Fri., Sat., at 8.*

21. *Integral Calculus*

Professor SLOCUM *and Mr.* CURRIER.

Three hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Science. *Tu., Wed., Fri., at 8.*

[22. *Theory of Functions*]

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors. Not offered in 1907–8.

23. *Differential Equations, advanced course*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates who have credit for 22.

24. *Advanced Algebra*

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

25. *General Theory of Curves and Surfaces*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

26. *Quaternions and allied subjects*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

XVI. MECHANICAL ENGINEERING§

WILLIAM HERBERT KENERSON, M.E., A.M., *Associate Professor of Mechanical Engineering*

THURSTON MASON PHETTEPLACE, PH.B., M.E., *Assistant Professor of Mechanical Engineering*

FREDERICK EUGENE BANFIELD, JR., PH.B., *Assistant in Mechanical Engineering*

HENRY DEWEES CADY, *Instructor in Shop Practice*

1, 2, 3. *Wood-work*

Exercises in carpentry, wood-turning, and pattern-making. *Mr.* CADY.

Three hours in any term. Seven hours of attendance. Elective for Sopho-

‡ One of the three courses 23, 25, 26 will be offered if applied for.

§ All the courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1–6 are all elective for Sophomores, Juniors, and Seniors, but not more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.

mores, Juniors, and Seniors who have had instruction in drawing. *Tu. 2.20 to 5.20; Fri. 2.20 to 6.20.*

4, 5, 6. *Metal-work*

Exercises in chipping and filing; the use of machine tools; forging and hardening tools, etc. *Mr.* CADY.

Three hours in any term. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors who have had instruction in drawing. *Wed. 2.20 to 5.20; Fri. 2.20 to 6.20.*

8. *Kinematics*

Velocity ratios, rolling surfaces, cams, and belting. Recitations, drawing, and the solution of problems. *Professor* PHETTEPLACE.

Three hours. Seven hours of attendance. Third Term. Elective for students who have credit for Mechanical Drawing 5. *Tu. 12.20 to 1.20, 2.20 to 5.20; Fri. 2.20 to 5.20.*

9, 10, 11. *Kinematics*

Gearing, linkwork, parallel motions, and gear trains; machine tools; the application of the principles involved. Recitations, drawing, and the solution of problems. *Professor* PHETTEPLACE.

Three hours. Seven hours of attendance. Through the year. Elective for students who have credit for 8 and for Mechanical Drawing 5. *Mon. 2 to 6; Th. 2.20 to 5.20.*

12, 13, 14, 15. *Machine Design*

Applications of the principles of mechanics and the strength of materials to the design of representative types of boilers, engines, and various mechanisms; solution of problems illustrating the method of designing bolts and nuts, keys, journals and bearings, fly-wheels, valve gears, etc. Lectures, calculation, and drawing. *Professor* PHETTEPLACE.

Three hours. Six hours of attendance. First, Second, Third, and Third Terms. Elective for students who have credit for 8, 9, 10, 11 and Mechanics 1. *Mon., Th., 10.20 to 1.20.*

16, 17, 18. *Thermodynamics*

Applications of the principles of gases and vapors to steam, gas, and other heat engines, air-compressors, refrigerating apparatus, etc.; discussion of the energy of fuel and the utilization of such energy for power purposes by means of various media; laws of the relation of

variations of pressure, temperature, and volume of such media; design of cylinders to produce a desired amount of power; the principles of the injector and the ejector. *Professor* KENERSON *and Mr.* BANFIELD.

Three hours. First, Second, and Third Terms. Elective for students who have credit for Mathematics 5, 6, 7 or 20, 21. First and second terms, *Wed., Fri., Sat., at 12.20.* Third term, *Mon., Wed., Th., at 9.20.*

19, 20, 21. *Engineering Practice*

Applications of the principles of thermodynamics and mechanics to the production, transmission, utilization, and measurement of power; valves and valve gears, and valve setting; indicator practice and tests of various forms of steam engines, gas engines, etc.; standardization of auxiliary apparatus used in making the various tests; boiler testing; flue gas and fuel analysis, etc. Lectures, recitations, and laboratory work. *Professor* KENERSON *and Mr.* BANFIELD.

Three hours. First, Second, and Third Terms. Elective for students who have taken or are taking 16, 17, 18. First and second terms, *Tu., Wed., Sat., at 9.20; Tu. 2.20 to 4.20.* Third term, *Mon., Th., at 8; Tu. 2.20 to 4.20.*

22. *Materials of Engineering*

Study of the sources, manufacture, and properties of the important materials used in engineering; laboratory tests to determine the behavior of materials when subjected to tensile, compressive, and torsional stresses; mixing and testing of cements and mortars; preparation and examination of sections for the microscopical study of the structure of metals and alloys. Lectures, recitations, and laboratory work. *Professor* KENERSON *and Mr.* BANFIELD.

Three hours. First and Second Terms. Elective for students who have taken Mechanics 3. *Wed., Fri., at 10.20. 1st div. Mon. 2.20 to 4.20; 2d div. Tu. 2.20 to 4.20; 3d div. Th. 2.20 to 4.20; 4th div. Mon. 9.20 to 11.20.*

23. *Power Plant Engineering*

Discussion of the relation and coördination of the various parts of the complete power plant; management, and methods of determining efficiency; selection of the best equipment from manufacturers' catalogues and actual inspection. Lectures, recitations, tests, and tours of inspection. *Professors* KENERSON *and* PHETTEPLACE.

Three hours. First Term. Elective for students who have credit for 19, 20, 21. *Wed., Fri., 2.20 to 5.20.*

24. *Advanced Laboratory Course*

Investigation of special problems in hydraulic and steam engineering. Determination of experimental constants for the Venturi meter, flow of water over weirs and through pipes, flow of air, steam, etc. Particular emphasis laid on preparation and form of reports. *Professor* KENERSON.

Three hours. Second Term. *Wed., Fri., 2 to 5.*

25. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Mechanical Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

XVII. MECHANICS AND MECHANICAL DRAWING

OTIS EVERETT RANDALL, PH.D., *Professor of Mechanics and Mechanical Drawing*

ANSEL BROOKS,† PH.B., M.E., *Assistant Professor of Mechanics and Mechanical Drawing*

THURSTON MASON PHETTEPLACE, PH.B., M.E. *Assistant Professor of Mechanical Engineering*

WILLIAM ARTHUR KENNEDY, PH.B., SC.B., *Instructor in Mechanical Drawing*

MECHANICS

1. *Mechanics of Solids*

Statics, including resolution and composition of forces, determination of center of gravity, and problems relative to rigid bodies and flexible cords; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, and friction; strength of materials, including tension, compression, shearing, torsion, flexure, and arches; methods of graphical solution of problems. *Professor* RANDALL.

Three hours. Through the year. Elective for students who have credit for Mathematics 4 and 5, and who have taken or are taking Mathematics 6. First and second terms. Required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Th., at 11.20.*

† On leave of absence during the academic year 1907–8.

3. *Strength of Materials*

Tension, compression, shearing, torsion, flexure, arches, and graphical solution of problems. *Professor* RANDALL.

Six hours. Third Term. Required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

2. *Mechanics of Fluids*

Hydrostatics; nature and use of instruments; flow through orifices, over weirs, through tubes, through pipes, in conduits, flow of rivers, water supply and water power, dynamic pressure of water, water wheels, turbines, pumps and pumping. *Professor* RANDALL.

Three hours. First and Second Terms. Required of all candidates for the degree of Bachelor of Science. Elective for students who have credit for 3. *Wed., Fri., Sat., at 11.20.*

4. *Advanced Mechanics*

Higher theoretical and practical problems. *Professor* RANDALL.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 3.

MECHANICAL DRAWING

1. *Elementary Mechanical Drawing, and Descriptive Geometry*

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic projection; discussion, proof, and graphic solution of problems in descriptive geometry relating to the point, line, and plane, to line and surface generation and classification, to surface tangency, and to intersections and developments; application of the principles of descriptive geometry in isometric drawing, in shades and shadows and perspective, in machine drawing, and in practical engineering problems. *Professors* RANDALL *and* PHETTEPLACE, *Mr.* KENNEDY.

Four hours. Through the year. First term, one hour of recitation and six hours of drawing. Second and third terms, three hours of recitation and three hours of drawing. Required in the Freshman year of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., at 9.20 and 10.20.*

2. *Elementary Mechanical Drawing*

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic and isometric projection. *Professor* PHETTEPLACE *and Mr.* KENNEDY.

Three hours. Six hours of drawing. First Term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for all Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.20.*

3. *Descriptive Geometry*

Discussion, proof, and graphic solution of problems in descriptive geometry. *Professor* PHETTEPLACE *and Mr.* KENNEDY.

Three hours. Two hours of recitation and two hours of drawing. Second and Third Terms. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors who have credit for 2. *Mon., Wed., Th., at 10.20.*

4, 5. *Machine Drawing*

Study and representation of machine parts; the principles of elementary machine design; sketches, detail and assembly drawings of machines; practice in reading drawings. *Mr.* KENNEDY.

Three hours. One hour of recitation and eight hours of drawing. First and Second Terms. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering or Electrical Engineering. Elective for students who have credit for 3. *Tu. at 12.20; Mon., Th., 2.20 to 5.20.*

6. *Elements of Machine Design*

Mr. KENNEDY.

Three hours. One hour of recitation and five hours of drawing. Third Term. Elective for students who have credit for 5.

7. *Shades and Shadows and Perspective; Architectural Drawing*

Problems relating to the shade and shadow and perspective of elementary magnitudes; the principles of architectural design and composition; working drawings and ordinary office practice. *Professor* RANDALL.

Three hours. Six hours of drawing. Through the year. Elective for students who have credit for 1 or 3. Given at the University during the first term, and at the Rhode Island School of Design during the second and third terms.

8. *Mechanical Drawing, practical*

For students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Intersections and developments; third quadrant projection; sketching and dimensioning; conventional methods of representing machine parts; detailing and assembling; exercises in reading drawings; architectural drawing, including the drawing of plans and elevations, and the details of building construction. *Mr.* KENNEDY.

Three hours. Six hours of drawing. Second and Third Terms. Elective for students who have credit for 2. *Mon., Wed., Th., at 10.20.*

XVIII. PHILOSOPHY

William Herbert Perry Faunce, A.M., D.D., LL.D., *Professor of Moral and Intellectual Philosophy*

Edmund Burke Delabarre, Ph.D., *Professor of Psychology*

Walter Goodnow Everett, Ph.D., *Professor of Philosophy and Natural Theology*

Walter Ballou Jacobs, A.M., *Professor of the Theory and Practice of Education*

Alexander Meiklejohn, Ph.D., *Professor of Logic and Metaphysics*

1. *Logic*

Aims, methods, and limitations of human thinking; a preparation for work in the sciences and in philosophy. First term, general introduction and formal logic. Second term, principles and methods of the natural sciences. Third term, relations of science to philosophy; philosophical interpretation and criticism of the results of science. *Professor* Meiklejohn.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Th., Fri., at 9.20.*

2. *Psychology, introductory course*

The main facts and laws of mental life, with particular attention to their arrangement in a scientific system, and to their philosophical bearing. The course furnishes a knowledge of mental law important for practical life, and serves also as a transition from the special sciences to philosophy. *Professor* Delabarre.

Three hours. Through the year. Elective for Juniors. *Wed., Fri., Sat., at 11.20.*

3. *Psychology, advanced course*

A seminary for the discussion of important and interesting questions in psychology, especially the problems of mental composition, of the relation of mind and body, and of hypnotism and psychical research. *Professor* Delabarre.

Three hours. Through the year. Elective for Seniors and Graduates.

4. *Experimental Psychology, introductory laboratory course*

Description of the main lines and results of experimental research;

demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement. *Professor* DELABARRE.

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have taken or are taking 2. Although essentially a year course, it may, by special arrangement with the instructor, be taken for a shorter period.

5. *Experimental Psychology, advanced laboratory course*

The problems investigated vary and the course may be taken two or more years in succession. The aim is to study further the problems of experimental psychology, and, whenever possible, to make original contributions to scientific knowledge. *Professor* DELABARRE.

One to six hours. Two to twelve hours of attendance. Through the year. Elective for students who have credit for 4. May be taken for more than six hours by Graduates.

6, 7, 8. *History of Philosophy*

The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical but synthetic and constructive as well. First term, Greek philosophy. Second term, medieval and early modern philosophy. Third term, recent and contemporary philosophy. *Professor* EVERETT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

9, 10. *Theoretical Ethics*

Intended to aid in mastering the fundamental problems of life and character. First term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. *Professor* EVERETT.

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates. *Tu., Wed., Sat., at 9.20.*

11. *Practical Ethics*

The application of ethical theory to the life of the individual, the family, and the state. Discussion of current problems, personal, industrial, and social, from the ethical standpoint. *President* FAUNCE.

Three hours. Third Term. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 9.20.*

12. *Philosophy of Religion*

An investigation of the ultimate problems of religious belief. *Professor* EVERETT.

Three hours. Third Term. Elective for Seniors and Graduates who have credit for one course in Philosophy. *Tu., Wed., Sat., at 9.20.*

13, 14, 15. *Philosophical Seminary*

Lectures, written reports, and discussions on the more difficult problems of philosophy. Subject for 1907–8: The philosophical systems of Schopenhauer and Hartmann. *Professor* EVERETT.

Three hours. Through the year. Elective for Graduates.

[16. *Kantian and Post-Kantian Philosophy*]

Kant's *Critique of Pure Reason* studied as the source of German idealism. *Professor* MEIKLEJOHN.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates. Not offered in 1907–8.

17. *Advanced Logic*

A seminary for the discussion of the more fundamental problems of logical theory. Reading, written reports, and discussions. *Professor* MEIKLEJOHN.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates.

EDUCATION‡

Professor JACOBS

1. *History of Education*

Education among the early culture peoples as forming and perpetuating their civilization; the development of education in Greece and Rome as parallel to the development of thought and learning; early Christian education; the renaissance and humanism; the rise of

‡ Courses 1, 2, and 3 treat education in its relation to the individual and to the social and political whole; interest in them is therefore not limited to those who intend to teach. At the same time they form an introduction to the more advanced courses in Education. Those who intend to teach are advised to elect these courses during the Junior year.

Courses 1–6 cover the usual requirements for certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1–6 and hold a college degree. Due credit is also given for separate courses.

realism in thought and education. The history of education considered from the point of view of the history of civilization.

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

2. *Critical Study of Modern Education*

The beginnings of modern education; the naturalistic movement—Rousseau; the psychological movement—Pestalozzi, Froebel, Herbart; the scientific movement—Spencer; recent sociological tendencies; current experiments; problems which an adequate theory of education must solve.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

3. *Fundamental Principles of Education*

The meaning and aim of education; the function of education as a social institution; the sequence and coördination of studies; the principles of instruction; apperception; the steps in method; the use of the type in instruction; the training of the will; the principles of moral education.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

4. *Psychology of Education*

Theory and process of mental development, with special emphasis upon the period of adolescence; psychology of method, and of the various studies and disciplines; ways in which student and teacher may utilize a knowledge of the more fundamental activities of the mind.

Three hours. First Term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 1. *Mon., Tu., Th., at 11.20.*

5. *Hygiene of Education*

A study of bodily growth and development; special emphasis upon the period of adolescence; play and fatigue; physical culture and athletics; arrested growth; the conditions and surroundings which favor or retard normal development; the hygiene of mind; school hygiene.

Three hours. Second Term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 2. *Mon., Tu., Th., at 11.20.*

6. *Practical Introduction to Teaching*

The method of the recitation; management and discipline of classes; observation of good teaching; practical applications of method.

Three hours. Third Term. Elective for Seniors and Graduates who have taken or are taking other courses in Education. *Mon., Tu., Th., at 11.20.*

7, 8, 9. *Methods in Secondary School Studies and the Organization, Equipment, and Management of Secondary Schools*‡‡
Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive special attention: First term, Latin and Modern Languages. Second term, History and English. Third term, Science and Mathematics.
Three hours. Two hours of class-room attendance. Through the year. Required of student-teachers. Elective for Graduates and experienced teachers. *Wed. 3.20 to 5.20.* Each term may be elected independently.

10, 11, 12. *Problems in Practical Teaching; Secondary Schools*‡‡
Practice teaching in the Providence High Schools under experienced teachers. Observation, reports, and conferences. Designed for those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools.
Three hours. Through the year. Elective for approved Graduates who have credit for elementary courses in Education and who are taking 7, 8, 9 and 16, 17, 18. *Fri. at 3.20*, and at other hours to be arranged.

13, 14, 15. *Problems in Practical Teaching; Grammar Grades*‡‡
Practice teaching in the Providence Grammar Schools under experienced teachers. Observation, reports, and conferences. Designed especially for those who wish to become grade teachers, principals of grammar schools, or superintendents of schools, but also for those who wish to teach in secondary schools. The following studies receive special attention: First term, Arithmetic. Second term, Language. Third term, History and Geography.
Three hours. Through the year. Elective for approved Graduates who have credit for elementary courses in Education and who are taking 16, 17, 18. Elective also by special permission for a limited number of Seniors. *Mon. at 3.20*, and at other hours to be arranged.

16, 17, 18. *Seminary in Education*‡‡
Reviews and discussions of recent publications; reports on special studies undertaken by members. The subjects vary from year to year.

‡‡ In connection with this course, and for an explanation of the work of student-teachers, see page 157 under "Arrangements with Other Institutions."

For 1907–8 they are: First term, Recent educational theory. Second term, History of higher education in America. Third term, Industrial education.

Three hours. Two hours of class-room attendance. Required of student-teachers. Elective for Graduates and experienced teachers. *Sat. 10.20 to 12.20.* Each term may be elected independently.

XIX. PHYSICS

Carl Barus, Ph.D., LL.D., *Hazard Professor of Physics*
Albert deForest Palmer, Jr., Ph.D., *Associate Professor of Physics*
Arthur Eugene Watson, Ph.D., *Assistant Professor of Physics*
Robert Franklin Field, A.M., *Assistant in Physics*

1, 2, 3. *Elementary Physics*‡

First term, kinematics and dynamics. Second term, molecular physics. Third term, electricity. Lectures, illustrated by experiments and the lantern; weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics. *Professor* Barus.

Three hours. Through the year. Elective for Undergraduates who have credit for Mathematics 1, 2, 3. *Mon., Wed., Th., at 10.20.*

4, 5, 6. *Elementary Physics, continued*‡

First term, optics. Second term, acoustics; polarization of light. Third term, heat. Methods as in 1, 2, 3. *Professor* Barus.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.20.*

7. *Physical Measurements*

Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems. *Professor* Palmer *and Mr.* Field.

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3 or 4, 5, 6. *Mon. at 12.20.*

8, 9, 10. *Mathematical Treatment of Dynamical Problems*§

Lectures. First term, discussion of the general principles of dyna-

‡ Graduates attending courses 1, 2, 3; 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics.*
§ Of the two courses 8, 9, 10 and 11, 12, 13, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

mics and the development of the general equations of motion. Second and third terms, application of these principles to special problems in thermodynamics and hydrodynamics. *Professor* PALMER.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 7 and Mathematics 9.

11, 12, 13. *Mathematical Theory of Electricity and Magnetism*‡

Lectures. Includes a discussion of the more important problems of electrical science. *Professor* PALMER.

Three hours. Through the year. Elective for Graduates and Seniors who have credit for 7 and Mathematics 9.

14, 15, 16. *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors* BARUS, PALMER, *and* WATSON.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 7.

17, 18, 19. *Applied Harmonic Analysis and Applied Vector Analysis*§

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions, and Lamé functions; the chief theorems of vector analysis deduced and applied to dynamics, elastics, hydrodynamics, the electromagnetics of Maxwell and Hertz, and the electronic theory of Heaviside, Lorentz, and others. *Professor* BARUS.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 1, 2, 3 and Mathematics 6, 7, 8.

20, 21, 22. *Physics, advanced course*§

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electromagnetic theory of light, thermal analytics, and thermodynamics. Completed in two years. *Professor* BARUS.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for Mathematics 6, 7, 8.

‡ Of the two courses 8, 9, 10 and 11, 12, 13, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

§ In determining which of the two courses 17, 18, 19 and 20, 21, 22 shall be offered in any given year, the preference of applicants will be considered.

23. *Precision Measurements in Photometry, Electricity, Magnetism, and Electro-Chemistry*

Professor PALMER.

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 7 and Mathematics 6.

ELECTRICAL ENGINEERING‡

Professor WATSON

1, 2, 3. *General Course*

First term, instruction in methods of generating and utilizing electric currents. Second term, technical study of the theory and working of direct current dynamo-electric machinery. Third term, laboratory practice in operating and testing various sizes and types of standard dynamos and accessory apparatus; lectures on alternating current machinery.

Three hours. Through the year. Elective for students who have taken or are taking Physics 3 and 7 and Mathematics 5 or 20. First term, *Mon., Th., Fri., at 9.20.* Second term, *Mon., Th., at 9.20;* one laboratory period. Third term *Mon., at 9.20;* two laboratory periods.

4, 5, 6. *Alternating Currents*

Mathematical and graphical treatment.

Three hours. Two hours of recitation and two hours of laboratory work. Through the year. Elective for students who have credit for 3 and who have taken or are taking Mathematics 9. *Mon., Th., at 10.20;* one laboratory period.

7, 8, 9. *Industrial Electricity*

First term, telephone and telegraph engineering. Second term, history of electrical engineering. Third term, design and calculation of direct current machinery, including actual drawing of electrical machinery in connection with Mechanical Engineering 11.

Three hours. Through the year. Not elective. To be taken with 1, 2, 3. First term, *Tu., Wed., at 9.20; Sat. at 11.20.* Second and third terms, *Tu., Fri., at 9.20; Sat. at 11.20.*

10, 11, 12. *Special Topics in Electrical Engineering*

First term, electric railway engineering. Second term, design and

‡ All the courses in this department are required of candidates for the degree of Bachelor of Science in Electrical Engineering. Courses 1, 2, 3 are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1 and 2 are required of candidates for the degree of Bachelor of Science in Civil Engineering.

calculation of alternating current machinery; central station design and equipment; systems of distribution.

Three hours. First and Second Terms. Elective for students who have credit for 1, 2, 3. First term, *Tu., Wed., Fri., at 10.20.* Second term, *Tu., Fri., at 11.20* in addition.

13. *Specific Electrical Engineering Problems*

Reading and discussion. Seminary method.

Three hours. Third Term. Not elective. *Tu., Wed., Fri., at 10.20.*

14. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Electrical Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

XX. ROMAN LITERATURE AND HISTORY

Albert Granger Harkness, A.M., *Professor of Roman Literature and History*

John Francis Greene, A.M., *Assistant Professor of Roman Literature and History*

Lida Shaw King, A.M., *Assistant Professor of Classical Philology*

1. *Livy*

Designed to enable the student to acquire facility in reading Latin, and to instruct him in the use of the Latin texts as a means of gaining a knowledge of Roman history; grammatical study and literary criticism also receive attention. *Professors* Harkness *and* Greene.

Three hours. First Term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

2. *Cicero's Letters*

Aims and methods as in 1. *Professors* Harkness *and* Greene.

Three hours. Second Term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

3. *Tacitus's Germania and Agricola.*

Aims and methods as in 1. *Professors* Harkness *and* Greene.

Three hours. Third Term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

4. *Horace's Odes and Epodes*

Critical study of the poems, supplemented by rapid reading with a view to comprehending the spirit of the author; the literary side of the study is made prominent. Lectures; literary topics assigned to the class for special study. *Professor* HARKNESS.

Three hours. First Term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

5. *Catullus, Tibullus, and Propertius*

Aims and methods as in 4. *Professor* GREENE.

Three hours. Second Term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

6. *Satires of Horace*

Aims and methods as in 4. *Professor* GREENE.

Three hours. Third Term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

7, 8, 9. *Latin Poetry*

Aims to give a connected and comprehensive view of the history and development of Latin poetry. Forms with 10, 11, 12 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, Plautus. Second term, Lucretius. Third term, Juvenal and Martial. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not to be offered in 1908–9. *Tu., Fri., Sat., at 10.20.*

[10, 11, 12. *Latin Prose*]

Aims to give a connected and comprehensive view of the history and development of Latin prose. Forms with 7, 8, 9 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors, on the development of oratory, etc.; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, specimens of early Latin, Cicero's *Brutus,* and Quin-

tilian. Second term, Cicero. Third term, the *Annals* of Tacitus. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not offered in 1907–8.

13, 14, 15. *Petronius, Pliny the Younger, Martial*

Professor HARKNESS.

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. *Fri. at 2.20.*

[16, 17, 18. *Epigraphy*]

Professor HARKNESS.

Two hours. Through the year. Elective for Graduates and approved Undergraduates. Not offered in 1907–8.

22, 23, 24. *Latin Composition*

Professor GREENE.

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon. at 3.20.*

25, 26, 27. *Seminary in Latin*

Subject for 1907–8: Studies in prosody and in textual criticism. Reading from the poetry of the Empire. Gudeman's *Latin Literature of the Empire,* vol. II. *Professors* HARKNESS *and* GREENE.

Two hours. Through the year. Elective for Graduates.

[28, 29. *Roman Life*]

The private and public life of the Romans. Intended to give a comprehensive view of the civilization of Rome. Study based on the monuments and literature. Lectures, supplemented by reading and reports. No knowledge of Latin required. A continuation of Greek 33, the three terms together constituting the course called the History of Greek and Roman Life and Institutions. *Professor* GREENE.

Three hours. Second and Third Terms. Elective for Freshmen and Sophomores. Not offered in 1907–8.

30. *Roman Literature*

A brief history of Roman literature. Some of the most important and characteristic works studied in English translations. No knowledge of Latin required. Follows Greek 34 and is continued in the third term by Indo-European Philology 1. *Professor* HARKNESS.

Three hours. Second Term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

31, 32, 33. *History of the Roman Empire*

First term, the Early Empire. Second term, the Age of the Antonines. Third term, the Age of Constantine. *Professor* GREENE.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected independently. *Tu., Wed., Sat., at 9.20.*

XXI. ROMANCE LANGUAGES AND LITERATURES

COURTNEY LANGDON, A.B., *Professor of the Romance Languages and Literatures*

ALBERT BUSHNELL JOHNSON, A.M., *Associate Professor of the Romance Languages*

ALBERT SWIFT MORSE, A.M., *Assistant Professor of the Romance Languages*

CHARLES HERMAN HUNKINS, A.B., *Instructor in French*

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B., *Assistant in French*

1. *Elementary Course*

Grammar, composition, dictation; translation of selections from modern authors into idiomatic English. The equivalent of the French required for admission. *Professor* MORSE *and Mr.* HUNKINS.

Three hours. Through the year. Required of all students who did not present French for admission. *1st div. Tu., Th., Fri., at 8; 2d div. Tu., Wed., Sat., at 9.20; 3d div. Mon., Tu., Th., at 2.20.*

2, 3, 4. *Intermediate Course*

First term, review of grammar, and sight translation of easy modern authors. Second term, translation of modern authors, with composition exercises based upon the text. Third term, selections from classical and modern authors. A general introduction to the study of French literature. *Professors* JOHNSON *and* MORSE, *Mr.* HUNKINS.

Three hours. Through the year. Required of all students who presented elementary French for admission. Elective for students who have credit for 1. *1st and 3d div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Fri., at 8; 4th div. Tu., Th., Fri., at 3.20; 5th div. Mon., Th., Fri., at 9.20.*

5, 6, 7. *French Language and Literature*

An introduction to classical and modern French literature; includes some study of the language. *Mr.* HUNKINS.

Three hours. Through the year. Elective for students who presented advanced French for admission. *Mon., Tu., Th., at 11.20.*

8, 9, 10. *French Literature, exclusive of the Drama, from 1800 to 1850*

Chateaubriand, Hugo, Lamartine, De Musset, De Vigny, Balzac, George Sand, and Gautier; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Mon., Tu., Th., at 11.20.*

[11, 12, 13. *French Literature, exclusive of the Drama, since 1850*]

Flaubert, the Goncourts, Daudet, Zola, Taine, Loti, and others; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. Not offered in 1907–8.

14. *Composition*

Practice in writing French. Most appropriately taken in connection with 5, 6, 7; 8, 9, 10; or 11, 12, 13. *Mr.* HÉNIN.

One hour. Through the year. Elective for students who have taken 2, 3, 4, or are taking 5, 6, 7. *Fri. at 2.20.*

[17, 18, 19. *Old French*]

The elements of Romance philology and an introduction to the literature of the Middle Ages in France. *Professor* MORSE.

Three hours. Through the year. Elective for approved Seniors and Graduates. Not offered in 1907–8.

20, 21, 22. *French Literature, exclusive of the Drama, from 1600 to 1800*

Pascal, Madame de La Fayette, La Fontaine, Boileau, Bossuet, Madame de Sévigné, Saint-Simon, Le Sage, Voltaire, Rousseau. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 10 or 13. *Mon., Wed., Th., at 10.20.*

23, 24, 25. *The French Drama*

A two-year course covering the history of the French drama. The classical school from Corneille to Beaumarchais and the romantic

and realistic schools from Hugo to Rostand will be taken up in alternate years. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 7, 10, or 13. *Tu., Fri., Sat., at 10.20.*

50. *Molière in English*

A study of Molière's plays, by means of English translations, in the light of the French civilization of the seventeenth century. *Professor* LANGDON.

Three hours. First Term. Elective for Sophomores and Juniors who also elect German 50 and English 50. *Tu., Wed., Sat., at 9.20.*

26, 27, 28. *Modern Italian*

Grammar, composition, conversation, and rapid translation of modern authors. *Professor* MORSE.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

29, 30, 31. *Italian Literature from 1321 to 1800*

Selections from Petrarch, Sacchetti, Tasso, Macchiavelli, and Goldoni, with a brief survey of the life and history of the times. *Professor* MORSE.

Three hours. Through the year. Elective for students who have credit for 26, 27, 28. *Mon., Tu., Th., at 11.20.*

[32, 33, 34. *Dante*]

The *Divina Commedia* read in the original. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 26, 27, 28. Not offered in 1907–8.

35, 36, 37. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and in connection with other great world-poems. An introduction to a study of comparative literature by means of the best available translations. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

38, 39, 40. *Modern Spanish*

Grammar, conversation, composition, writing from dictation, and rapid reading. *Professor* JOHNSON.

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

41, 42, 43. *Spanish Literature*

A study of selected works of classical and modern authors. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 38, 39, 40. *Mon., Wed., Th., at 10.20.*

XXII. SOCIAL AND POLITICAL SCIENCE‡

GEORGE GRAFTON WILSON, PH.D., *Professor of Social and Political Science*

JAMES QUAYLE DEALEY, PH.D., *Professor of Social and Political Science*

LESTER FRANK WARD, A.M., LL.D., *Professor of Sociology*

POLITICAL SCIENCE

1. *Political Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* WILSON.

Three hours. First Term. Sophomore, Junior, or Senior year. Required of candidates for the degree of Bachelor of Arts; elective for others. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2. *International Relations*

International law, diplomacy, and world-politics. *Professor* WILSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

3, 4. *American Government*§

First term, constitution, organization, powers, and methods of the national system of government. Second term, organization and functions of the states and cities of the United States. Followed by 5 in the third term. *Professor* DEALEY.

‡ The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

§ Courses 3, 4, and 5 form a single course continuous through the year.

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

5. *Comparative Study of Constitutions*‡

The constitutions of Germany, France, Great Britain, and Switzerland especially considered. *Professor* Dealey.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

8. *Constitutional Law*§

The principles and development of constitutional law, with special reference to the Constitution of the United States. *Professor* Dealey.

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

6. *Roman Law*§

The influence of Roman law on ancient and modern political institutions. *Professor* Wilson.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

7. *Jurisprudence*§

The fundamental principles of law and legal relations. *Professor* Wilson.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

9. *The Latin-American Republics*‖

The government and social conditions of the Latin-American Republics. *Professor* Dealey.

Three hours. One term. Offered if applied for by Graduates.

10. *Political Parties*‖

The development of political parties in the United States and Europe. *Professor* Wilson.

Three hours. One term. Offered if applied for by Graduates.

‡ Courses 3, 4, and 5 form a single course continuous through the year.
§ Courses 6, 7, and 8 form a single course continuous through the year.
‖ Courses 9–15 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

11. *Administration*‡

The principles and the chief national systems of administration. *Professor* Wilson.

Three hours. One term. Offered if applied for by Graduates.

12. *Administration (continued)*‡

Local and colonial administration. *Professor* Wilson.

Three hours. One term. Offered if applied for by Graduates.

13. *The State*‡

The origin, forms, development, functions, and institutions of the state. *Professor* Dealey.

Three hours. One term. Offered if applied for by Graduates.

14. *Development of Political Theory*‡

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy. *Professor* Dealey.

Three hours. One term. Offered if applied for by Graduates.

15. *Current Political Theory and Practice*‡

A seminary course. Intended to train students in methods of estimating the value and significance of recent publications on political topics, and the changes consequent upon current political development. *Professors* Wilson *and* Dealey.

One hour. Through the year. Elective for Graduates.

20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of social and political problems. In connection with this course, work in comparative legislation may be taken under the direction of the Legislative Reference Bureau of the State Library. Laboratory methods. *Professors* Wilson, Dealey, *and* Kirk.

Three hours. Six hours of attendance. Through the year. Elective for Graduates and for approved Juniors and Seniors.

‡ Courses 9–15 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

SOCIAL SCIENCE

1. *Social Science, elementary*

Affords a general outline of the subject and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

Three hours. Third Term. Sophomore, Junior, or Senior year. Must be preceded by Political Science 1 and Economics 1. Required of candidates for the degree of Bachelor of Arts; elective for others who have credit for Political Science 1 and Economics 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2. *Social Institutions, Conditions, and Problems*

Historical development of domestic, religious, and political institutions; study of such social problems as charity, crime, intemperance, marriage and divorce, etc. *Professors* WILSON *and* DEALEY.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

3. *Origin and Development of Society*

The formation of human institutions and their subsequent modifications. *Professor* WARD.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

4. *Social Philosophy*‡

The relation of sociology to other sciences, especially its psychic aspects, and the interpretation of social phenomena. *Professor* WARD.

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates. *Wed., Fri., Sat., at 11.20.*

5. *Application of Sociological Principles*‡

The utility of sociology as the basis of legislation and of the social art. The improvement of society through conscious effort. *Professor* WARD.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. *Wed., Fri., Sat., at 11.20.*

‡ Courses 4 and 5 form a single course continuous through the year.

6. *Sociological Aspects of Education*‡

The social importance of intellectual development and of the diffusion of knowledge. *Professor* WARD.

Three hours. Through the year. Elective for Graduates.

8. *Demography*‡

Dispersion of races; social study of race characteristics; emigration, immigration, etc. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

9. *Development of Social Theory*‡

Traces important theories, ancient and modern, in regard to social conditions and development. *Professor* DEALEY.

Three hours. One term. Offered if applied for by Graduates.

7. *Current Social Theory and Practice*‡

A seminary course. *Professors* WILSON *and* DEALEY.

One hour. Through the year. Elective for Graduates.

PHYSICAL TRAINING

FREDERICK WILLIAM MARVEL, PH.B., *Professor of Physical Training*

From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week as follows:

FRESHMEN. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Tu., Th., at 4.20.*

SOPHOMORES. *1st div. Mon. Wed., Th., at 10.20; 2d div. Tu., Th., Fri., at 3.20.*

A voluntary class for Juniors and Seniors will be held on *Mon., Tu., Th., Fri., at 5.10.*

‡ Courses 6–9 are primarily for Graduates and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

TABLE OF ELECTIVE COURSES, 1907–8‡

FIRST TERM

Art
1 Jr. Sr.
4 Jr. Sr.
10 Fr. So. Jr. Sr.
11 Jr. Sr.
12 Gr.

Astronomy
1 Jr. Sr.
4 Jr. Sr.
7 So. Jr. Sr.
10 Gr. Sr.
13 Gr.

Biblical Literature
1 Jr. Sr. Gr.
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Gr. Sr.
6 Sr. Gr.
7 Jr. Sr. Gr.
14 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.

Botany
1 Fr. So. Jr. Sr.
2 So. Jr. Sr. Gr.
6 Gr. Sr. Jr.

Chemistry
1 Fr. So. Jr. Sr.
4 So. Jr. Sr.
7 Jr. Sr. Gr.
10 Jr. Sr. Gr.
15 Gr.
18 Jr. Sr. Gr.
24 Jr. Sr. Gr.
27 Jr. Sr. Gr.
30 Gr.

Chemistry
33 Gr. Sr.
36 Gr. Sr.

Civil Engineering
4 So. Jr. Sr.
11 Jr. Sr.
16 Jr. Sr.
23 Sr.
25 Sr.
26 Sr.

Comparative Anatomy
1 Fr. So. Jr. Sr.
2 So. Jr. Sr.
4 So. Jr. Sr.
7 So. Jr. Sr.
10 Jr. Sr.
11 Gr.
12 Gr.
13 Gr.
14 Gr.
15 Gr.

Economics
2 Jr. Sr.
3 Jr. Sr. Gr.
5 Sr. Gr.
6 Jr. Sr. Gr.
10 Jr. Sr. Gr.
13 Jr. Sr.
20 Jr. Sr. Gr.

Education
1 Jr. Sr. Gr.
4 Sr. Gr.
7 Gr.
10 Gr.
13 Gr.
16 Gr.

Electrical Engineering
1 Jr. Sr.
4 Sr.
10 Sr.

English
2 So.
3 So. Jr. Sr.
4 Jr. Sr.
5 Jr. Sr.
7 So. Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr.
11 So.
15 Jr. Sr.
16 Jr. Sr.
18 Jr. Sr.
19 So. Jr. Sr.
20 So. Jr. Sr.
22 Jr. Sr.
23 Gr. Sr.

French
2 So. Jr. Sr.
5 Fr. So. Jr. Sr.
8 So. Jr. Sr.
14 So. Jr. Sr.
20 Jr. Sr.
23 So. Jr. Sr.
50 So. Jr.

Geology
3 So. Jr. Sr.
6 Jr. Sr. Gr.
1 So. Jr. Sr.
9 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.
12 Jr. Sr.

‡ Fr., So., Jr., Sr., Gr., indicate that the courses after which these abbreviations stand are open to Freshmen, Sophomores, Juniors, Seniors, or Graduate students, respectively.

German
3 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
23 Fr. So. Jr. Sr.
32 So. Jr. Sr.
33 So. Jr. Sr.
17 Jr. Sr. Gr.
20 Gr.
36 Sr. Gr.

Greek
A Fr. So. Jr. Sr.
1 Fr. So. Jr. Sr.
5 So.
7 Jr. Sr.
23 Gr. Sr.
30 Jr. Sr. Gr.
34 Fr. So.

History
2 Jr. Sr. Gr.
4 Jr. Sr. Gr.
8 Jr. Sr. Gr.
14 Gr. Sr.
19 Jr. Sr. Gr.
22 Gr. Sr.
27 Jr. Sr. Gr.

Indo-European Philology
7 Jr. Sr. Gr.

Italian
26 So. Jr. Sr.
29 Jr. Sr.
35 Jr. Sr. Gr.

Latin
1 Fr. So. Jr. Sr.
4 So.
7 Jr. Sr.
13 Jr. Sr. Gr.

Latin
22 So. Jr. Sr.
25 Gr.
31 So. Jr. Sr.

Mathematics
4 So. Jr. Sr.
6 So. Jr. Sr.
9 Jr. Sr.
15 So. Jr. Sr.
23 Gr.
24 Gr. Sr.

Mechanical Drawing
2 Fr. So. Jr. Sr.
4 So. Jr. Sr.
7 So. Jr. Sr.

Mechanical Engineering
1-6 So. Jr. Sr.
9 Jr. Sr.
12 Sr.
16 Jr. Sr.
19 Jr. Sr.
22 Sr.
23 Sr.

Mechanics
1 So. Jr. Sr.
2 Jr. Sr.
4 Sr. Gr.

Philosophy
1 So. Jr. Sr.
2 Jr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
6 Jr. Sr. Gr.
9 Jr. Sr. Gr.
13 Gr.
17 Sr. Gr.

Physics
1 So. Jr. Sr.
4 So. Jr. Sr.
7 Jr. Sr.
8 Sr. Gr.
11 Gr. Sr.
14 Sr.
17 Sr. Gr.
20 Jr. Sr. Gr.
23 Sr.

Political Science
1 So. Jr. Sr.
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
8 Jr. Sr. Gr.
9 Gr.
10 Gr.
11 Gr.
12 Gr.
13 Gr.
14 Gr.
15 Gr.
20 Gr. Sr. Jr.

Sanskrit
7 Jr. Sr. Gr.

Social Science
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
4 Jr. Sr. Gr.
6 Gr.
7 Gr.
8 Gr.
9 Gr.

Spanish
38 So. Jr.
41 Jr. Sr.

SECOND TERM

Art
2 Jr. Sr.
5 Jr. Sr.
10 Fr. So. Jr. Sr.
11 Jr. Sr.

Art
12 Gr.

Astronomy
2 Jr. Sr.
5 Jr. Sr.

Astronomy
8 So. Jr. Sr.
11 Gr. Sr.
14 Gr.

Biblical Literature
1 Jr. Sr. Gr.
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Gr. Sr.
6 Sr. Gr.
8 Jr. Sr. Gr.
19 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.

Botany
1 Fr. So. Jr. Sr.
2 So. Jr. Sr. Gr.
6 Gr. Sr. Jr.

Chemistry
2 Fr. So. Jr. Sr.
5 So. Jr. Sr.
8 Jr. Sr. Gr.
11 Jr. Sr. Gr.
16 Gr.
19 Jr. Sr. Gr.
25 Jr. Sr. Gr.
28 Jr. Sr. Gr.
31 Gr.
34 Gr. Sr.
37 Gr. Sr.

Civil Engineering
5 So. Jr. Sr.
7 Jr. Sr.
8 So. Jr. Sr.
9 So. Jr. Sr.
12 Jr. Sr.
14 Jr. Sr.
24 Sr.
27 Sr.
29 Sr.
30 Sr.
31 Sr.

Comparative Anatomy
1 Fr. So. Jr. Sr.
2 So. Jr. Sr.
5 So. Jr. Sr.
7 So. Jr. Sr.
10 Jr. Sr.

Comparative Anatomy
11 Gr.
12 Gr.
13 Gr.
14 Gr.
15 Gr.

Economics
1 So. Jr. Sr.
2 Jr. Sr.
3 Jr. Sr. Gr.
5 Sr. Gr.
7 Jr. Sr. Gr.
11 Jr. Sr. Gr.
13 Jr. Sr.
21 Jr. Sr. Gr.

Education
2 Jr. Sr. Gr.
5 Sr. Gr.
8 Gr.
11 Gr.
14 Gr.
17 Gr.

Electrical Engineering
2 Jr. Sr.
5 Sr.
11 Sr.
12 Sr.

English
2 So.
3 So. Jr. Sr.
4 Jr. Sr.
6 Jr. Sr.
7 So. Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr.
11 So.
18 Jr. Sr.
15 Jr. Sr.
16 Jr. Sr.
19 So. Jr. Sr.
20 So. Jr. Sr.
22 Jr. Sr.
23 Gr. Sr.

French
3 So. Jr. Sr.
6 Fr. So. Jr. Sr.
9 So. Jr. Sr.
21 Jr. Sr.
22 So. Jr. Sr.
14 So. Jr. Sr.

Geology
3 So. Jr. Sr.
6 Jr. Sr. Gr.
1 So. Jr. Sr.
8 Jr. Sr. Gr.
12 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.

German
4 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
24 Fr. So. Jr. Sr.
32 So. Jr. Sr.
34 So. Jr. Sr.
17 Jr. Sr. Gr.
20 Gr.
36 Sr. Gr.
50 So. Jr.

Greek
B Fr. So. Jr. Sr.
2 Fr. So. Jr. Sr.
4 So.
8 Jr. Sr.
19 So. Jr. Sr.
21 So. Jr. Sr.
24 Gr. Sr.
31 Jr. Sr. Gr.

History
3 Jr. Sr. Gr.
5 Jr. Sr. Gr.
9 Jr. Sr. Gr.
15 Gr. Sr.
20 Jr. Sr. Gr.
23 Gr. Sr.
28 Jr. Sr. Gr.

Indo-European Philology
8 Jr. Sr. Gr.
Italian
27 So. Jr.
30 Jr. Sr.
36 Jr. Sr. Gr.
Latin
2 Fr. So. Jr. Sr.
5 So.
8 Jr. Sr.
14 Jr. Sr. Gr.
23 So. Jr. Sr.
26 Gr.
30 Fr. So.
32 So. Jr. Sr.
Mathematics
4 So. Jr. Sr.
7 So. Jr. Sr.
10 Jr. Sr.
12 So. Jr. Sr.
23 Gr.
24 Gr. Sr.
Mechanical Drawing
3 Fr. So. Jr. Sr.
5 So. Jr. Sr.
7 So. Jr. Sr.
8 Fr. So. Jr. Sr.
Mechanical Engineering
1–6 So. Jr. Sr.

Mechanical Engineering
10 Jr. Sr.
13 Sr.
17 Jr. Sr.
20 Jr. Sr.
22 Sr.
24 Sr.
Mechanics
1 So. Jr. Sr.
2 Jr. Sr.
4 Sr. Gr.
Philosophy
1 So. Jr. Sr.
2 Jr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
7 Jr. Sr. Gr.
10 Jr. Sr. Gr.
14 Gr.
17 Sr. Gr.
Physics
2 So. Jr. Sr.
5 So. Jr. Sr.
7 Jr. Sr.
9 Sr. Gr.
12 Gr. Sr.
15 Sr.
18 Sr. Gr.

Physics
21 Jr. Sr. Gr.
23 Sr.
Political Science
2 Jr. Sr. Gr.
4 Jr. Sr. Gr.
6 Jr. Sr. Gr.
9 Gr.
10 Gr.
11 Gr.
12 Gr.
13 Gr.
14 Gr.
15 Gr.
21 Gr. Sr. Jr.
Sanskrit
8 Jr. Sr. Gr.
Social Science
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
4 Jr. Sr. Gr.
6 Gr.
7 Gr.
8 Gr.
9 Gr.
Spanish
39 So. Jr.
42 Jr. Sr.

THIRD TERM

Art
3 Jr. Sr.
6 Jr. Sr.
10 Fr. So. Jr. Sr.
11 Jr. Sr.
12 Gr.
Astronomy
3 Jr. Sr.
6 Jr. Sr.
9 So. Jr. Sr.
12 Gr. Sr.
15 Gr.

Biblical Literature
1 Jr. Sr. Gr.
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Gr. Sr.
6 Sr. Gr.
9 Jr. Sr. Gr.
20 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.
Botany
1 Fr. So. Jr. Sr.
2 So. Jr. Sr. Gr.

Botany
6 Gr. Sr. Jr.
7 Fr. So. Jr. Sr.
Chemistry
3 Fr. So. Jr. Sr.
6 So. Jr. Sr.
9 Jr. Sr. Gr.
12 Jr. Sr. Gr.
13 Sr. Gr.
14 Sr. Gr.
17 Gr.
20 Jr. Sr. Gr.
26 Jr. Sr. Gr.

Chemistry
29 Jr. Sr. Gr.
32 Gr.
35 Gr. Sr.
38 Gr. Sr.

Civil Engineering
6 So. Jr. Sr.
10 Jr. Sr.
13 Jr. Sr.
15 Jr. Sr.
17 Sr.
18 Sr.
19 So. Jr. Sr.
28 Sr.
34 Sr.

Comparative Anatomy
1 Fr. So. Jr. Sr.
2 So. Jr. Sr.
3 So. Jr. Sr.
8 So. Jr. Sr.
10 Jr. Sr.
11 Gr.
12 Gr.
13 Gr.
14 Gr.
15 Gr.
16 Jr. Sr.
18 Fr. So. Jr. Sr.

Economics
2 Jr. Sr.
5 Sr. Gr.
8 Jr. Sr. Gr.
12 Jr. Sr. Gr.
13 Jr. Sr.
22 Jr. Sr. Gr.

Education
3 Jr. Sr. Gr.
6 Sr. Gr.
9 Gr.
12 Gr.
15 Gr.
18 Gr.

Electrical Engineering
3 Jr. Sr.

Electrical Engineering
6 Sr.

English
2 So.
3 So. Jr. Sr.
4 Jr. Sr.
6 Jr. Sr.
7 So. Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr.
11 So.
18 Jr. Sr.
15 Jr. Sr.
16 Jr. Sr.
19 So. Jr. Sr.
20 So. Jr. Sr.
50 So. Jr.
22 Jr. So.
23 Gr. Sr.

French
4 So. Jr. Sr.
7 Fr. So. Jr. Sr.
10 So. Jr. Sr.
14 So. Jr. Sr.
22 Jr. Sr.
25 So. Jr. Sr.

Geology
3 So. Jr. Sr.
6 So. Jr. Sr.
1 So. Jr. Sr.
11 Jr. Sr. Gr.
12 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.

German
5 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
25 Fr. So. Jr. Sr.
32 So. Jr. Sr.
35 So. Jr. Sr.
17 Jr. Sr. Gr.
20 Gr.
36 Sr. Gr.

Greek
C Fr. So. Jr. Sr.
3 Fr. So. Jr. Sr.
6 So.
15 Jr. Sr.
20 So. Jr. Sr.
22 So. Jr. Sr.
25 Gr. Sr.
32 Jr. Sr. Gr.

History
6 Jr. Sr. Gr.
7 Jr. Sr. Gr.
10 Jr. Sr. Gr.
16 Gr. Sr.
21 Jr. Sr. Gr.
24 Gr. Sr.
29 Jr. Sr. Gr.

Indo-European Philology
1 Fr. So.
9 Jr. Sr. Gr.
4 Gr. Sr.

Italian
28 So. Jr. Sr.
31 Jr. Sr.
37 Jr. Sr. Gr.

Latin
3 Fr. So. Jr. Sr.
6 So.
9 Jr. Sr.
15 Jr. Sr. Gr.
24 So. Jr. Sr.
27 Gr.
33 So. Jr. Sr.

Mathematics
5 So. Jr. Sr.
8 So. Jr. Sr.
11 Jr. Sr.
14 So. Jr. Sr.
23 Gr.
24 Gr. Sr.

Mechanical Drawing
3 Fr. So. Jr. Sr.
6 So. Jr. Sr.
7 So. Jr. Sr.

Mechanical Drawing
8 Fr. So. Jr. Sr.
Mechanical Engineering
1-6 So. Jr. Sr.
8 So. Jr. Sr.
11 Jr. Sr.
14 Sr.
15 Sr.
18 Jr. Sr.
21 Jr. Sr.
Mechanics
1 So. Jr. Sr.
4 Sr. Gr.
Philosophy
1 So. Jr. Sr.
2 Jr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
8 Jr. Sr. Gr.
11 Jr. Sr.
Philosophy
12 Sr. Gr.
15 Gr.
17 Sr. Gr.
Physics
3 So. Jr. Sr.
6 So. Jr. Sr.
7 Jr. Sr.
10 Sr. Gr.
13 Gr. Sr.
16 Sr.
19 Sr. Gr.
22 Jr. Sr. Gr.
23 Sr.
Political Science
2 Jr. Sr. Gr.
5 Jr. Sr. Gr.
7 Jr. Sr. Gr.
9 Gr.
10 Gr.
11 Gr.
Political Science
12 Gr.
13 Gr.
14 Gr.
15 Gr.
22 Gr. Sr. Jr.
Sanskrit
9 Jr. Sr. Gr.
Social Science
1 So. Jr. Sr.
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
5 Jr. Sr. Gr.
6 Gr.
7 Gr.
8 Gr.
9 Gr.
Spanish
40 So. Jr.
43 Jr. Sr.

LIBRARIES, LABORATORIES, AND MUSEUMS

LIBRARIES

THE libraries of the University contain one hundred and seventy thousand volumes. They comprise the MAIN LIBRARY, which occupies the Library Building (the gift of John Carter Brown, of the class of 1816); the JOHN CARTER BROWN LIBRARY, with its own building, recently given to the University; and the DEPARTMENT LIBRARIES, in the various laboratories and seminary rooms.

THE MAIN LIBRARY is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture. It includes three special libraries. The first is the Harris Collection of American Poetry, founded by Albert G. Greene, extended by C. Fiske Harris, and bequeathed to the University by the Hon. Henry B. Anthony, which numbers over seven thousand volumes, and is perhaps the largest collection in the world devoted to the subject; a fund, given by Samuel C. Eastman, of the class of 1857, in memory of the founder of the collection, Albert G. Greene, of the class of 1820, provides for its regular increase. The second is the Rider Collection of Rhode Island History, formed by Sidney S. Rider and presented to the University by Marsden J. Perry, a collection which has no superior in extent and rarity of manuscript and printed material bearing on the history of the state. The third is the Wheaton Collection of International Law, given by William V. Kellen, of the class of 1872, in honor of Henry Wheaton, of the class of 1802. To all the books except the Harris and Rider Collections the students have free access.

The reading room contains the most important reference books, the books reserved by the departments for class use, the Select Library (a special collection of five hundred volumes of attractive reading), and the latest numbers of the standard periodicals, American and foreign. In this room also are the loan desk, where books are charged and returned, and the desk of the reference librarian, whose duty is to advise and assist students in their use of the library.

The library funds amount to over eighty thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of books on medieval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on medieval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the Library without expense: the members of the Corporation and Faculty; other college officers; graduates residing in the state of Rhode Island; donors to the funds of the University to the amount of five hundred dollars, residing in the state of Rhode Island; graduate and undergraduate students; and any other persons to whom the Corporation or the Library Committee may from time to time grant the privilege.

The Library is open during term time from 9 a.m. to 11 p.m. on week days, and from 2 to 11 p.m. on Sundays; during vacations from 10 a.m. to 4 p.m. on week days.

THE JOHN CARTER BROWN LIBRARY, given to the University by the trustees under the provisions of the will of the late John Nicholas Brown, of the class of 1885, is a collection of nearly twenty thousand volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800 and contain the earliest published accounts of events connected with the history of the discovery, exploration, and colonization of the Western Hemisphere. This collection, well known for many years as the most valuable private library of Americana in existence, was begun by John Carter Brown, of the class of 1816, and after his death was greatly enlarged by his widow and by his sons, the late John Nicholas and Harold Brown. The John Carter Brown Library occupies a building erected for it at the southeastern corner of the middle campus. It is open daily from 9 a.m. until 5 p.m.; the books may be consulted by all properly qualified students or investigators, upon application to the Librarian. In the main hall of the building are a number of cases in which are exhibited rare books, engravings, and manuscripts belonging to the collection.

DEPARTMENT LIBRARIES

The Germanic Department Library is contained in two rooms in Sayles Hall. It was purchased in Germany by the late Professor Alonzo Williams in the name of the principal donor, the Hon. Hezekiah Conant. The library now comprises over six thousand carefully selected volumes, including editions of all the important writers of German literature; a large collection of Germanic philology; the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, palaeography, and geography. The library is especially rich in works of the Middle High German period and in Goethe and Schiller literature. It possesses many bronzes, framed engravings, and volumes of plates which illustrate the subjects taught. The rooms are open from 9.20 a.m. to 12.30 p.m., from 2 to 6 p.m., and from 8 to 9.30 p.m.

The Classical Department Library is contained in the room in Sayles Hall occupied by the Albert Harkness Classical Seminary, named in honor

of its founder, the late Professor Albert Harkness. It consists of fifteen hundred volumes, purchased with funds contributed by friends of the University interested in classical studies, and contains the most important collections of Greek and Roman authors, besides commentaries, reference books, and similar aids. The seminary is made the center for advanced study and research in the classical languages and literatures. Though primarily intended for graduate students, the seminary is open to such undergraduates as are qualified to profit by its advantages. The room is open from 9.20 a.m. to 10 p.m.

The Romance Department Library is a collection of a thousand volumes for the use of advanced students in the Romance languages. It is contained in a room in Sayles Hall. This room is open Tuesday and Wednesday from 3.30 to 6 p.m., and from 7 to 9 p.m.; on Friday and Saturday from 11.30 a.m. to 1 p.m.

The Biblical Department Library is kept in a room in Sayles Hall. It consists of a reference collection of one thousand volumes, including a valuable collection of Semitic books presented by Mr. Jacob Shartenberg of Pawtucket. A number of Semitic, Biblical, and general religious journals are kept on file. The room is open from 9.20 a.m. to 12 m., from 2 to 5 p.m., and from 7 to 9 p.m., except Wednesday and Saturday afternoons and Friday evenings.

The Anatomical Department Library is contained in the rooms of the department of Comparative Anatomy in Rhode Island Hall. It is a collection of about twenty-two hundred volumes and fifteen hundred pamphlets, to which additions are constantly made. More than fifty current periodicals bearing upon the work of the department are regularly received. The rooms are open from 9.20 a.m. to 4 p.m.

The Educational Department Library is contained in the seminary room of the department, in the Administration Building. The library contains over one thousand volumes, chiefly text-books of recent publication. The room is open to all students interested in education, and to teachers and friends of education in the city and state.

The Library of the Department of Economics is situated in Sayles Hall. It contains about five thousand volumes, to which additions are constantly made, and it receives regularly about one hundred and twenty-five periodicals and papers bearing upon the work of the department. The rooms are open from 8 a.m. to 10 p.m.

The Women's College Library and Reading Room occupy two rooms in Pembroke Hall. The library comprises about two thousand volumes of standard literature, chosen with special regard to the courses offered, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library.

Other Department Libraries. There are several other special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Botany, Chemistry, Engineering, English, Geology, Mathematics, Philosophy, Physics, and Political and Social Science.

OTHER PROVIDENCE LIBRARIES

There are also at the service of the students of the University the seven collections of books named below. These comprise, with the University Library, over four hundred and fifty thousand volumes, exclusive of pamphlets and manuscripts.

The Providence Public Library offers to all students of Brown University, upon the same conditions as to other residents of the city, the use of its carefully chosen collection, which comprises more than one hundred and thirty thousand volumes. It is situated at the corner of Washington and Greene streets. Its principal rooms are open regularly from 9 a.m. to 9 p.m.; on Sundays and Christmas from 2 to 9 p.m. Among its special departments may be mentioned the Harris Collection on Slavery and the Civil War; the Educational Study-room; the "Standard Library" of best literature; and the Reference Department. About six hundred periodicals, serials, and annuals (of which about two hundred and seventy are the best-known weeklies, monthlies, and quarterlies) are currently received. The library staff is glad to be consulted with respect to books relating to any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

The Library of the Providence Athenaeum is a collection of general literature numbering seventy thousand volumes. The reading room receives upwards of two hundred papers and magazines, including New York, Boston, and Providence daily papers, and American, English, German, French, and Italian weeklies, magazines, and reviews. In bound sets of periodicals and in books on art this library is especially rich. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain the privilege from the Board of Directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is seven dollars and a half. The Athenaeum is open from 9 a.m. to 10 p.m. on week days.

The Library of the Rhode Island Historical Society is situated on Waterman Street, next door to the University Library Building. The Library of the Society comprises twenty thousand bound volumes and forty thousand valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to members of the Univer-

sity. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in genealogy, local history, and general American history. Its library has recently been enriched by a special bequest of books on the English and American drama, and by a collection of works on early American travels and ethnology. The Library is open from 9 a.m. to 4 p.m. on week days.

The Annmary Brown Memorial, situated on Brown Street south of the University grounds, was founded by General Rush C. Hawkins, of New York, in memory of his wife, Annmary Brown, of Providence. The building contains a collection — one of the most complete in the world — of books from the first European presses. It contains also a notable collection of paintings by old masters and modern painters. The collection of books was made for the special purpose of showing the progress of printing with movable metal type through the first half century of its existence — from about 1450 to 1500. It includes books from 130 out of the possible 238 first presses set up in Europe before the year 1501, and is fairly representative of countries. Among the books are many rare and interesting volumes. Incidentally there came into the collection many notable books adorned with woodcuts which show the earliest use of the woodcutter's art for book illustration.

The Library of the Rhode Island Medical Society is in the Providence Public Library Building, on Washington Street. It comprises twenty-two thousand volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene, and other subjects the study of which is pursued in the University. About one hundred and seventy-five medical periodicals are currently received. Arrangements are easily made whereby any student can without cost enjoy the privileges here offered. This collection is open daily from 9.30 a.m. to 5.30 p.m.

The State Law Library, a collection of thirty thousand volumes, may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 a.m. and 5 p.m. on week days, excepting on Saturdays, when it closes at 3 p.m. It is accessible to all students, and for certain lines of University study is invaluable. University students are requested to introduce themselves at the desk on their first visit to this library.

The State Library, located in the State House, is accessible to the public from 9 a.m. to 5 p.m.; on Saturdays from 9 a.m. to 12 m. This library contains a large collection of official documents of the United States and of the several states, a complete collection of the United States Patent Office Specifications, and general works pertaining to history and political science. The Legislative Reference Bureau conducted by the State Library directs the work of students who are investigating topics in comparative legislation.

LABORATORIES

The Ladd Astronomical Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope, and other attachments; four transit instruments, two of which can be used as zenith telescopes; a chronograph; three astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses.

The Observatory furnishes constant time-signals to the Fire Department of the City of Providence, and to the Rhode Island Electric Protective Company, which distributes them to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity, and precipitation, are made throughout the year. Special observations are also made as opportunity offers.

The Physical Laboratory, in which the courses offered by the Department of Physics are conducted, is in Wilson Hall, which was specially designed and constructed for this purpose. Twelve special laboratory rooms are available for experimental study. Brick piers support the instruments requiring great steadiness, and the magnetic rooms are as free as possible from the influence of iron and from other disturbances. Several rooms on the ground floor are devoted to a laboratory for electrical engineering. The Laboratory is supplied with apparatus both experimental and demonstrative, and additions are made as necessity requires. The department has a large assortment of historical and other photographs, lantern slides, and cage models illustrating the propositions in pure and applied physics.

The Chemical Laboratories are in Rogers Hall, which was erected expressly for the Department of Chemistry. The inorganic laboratory is supplied with tables and lockers furnishing accommodations for about two hundred and fifty students working by detachments. The organic laboratory is fitted with tables for about fifty students. Each table has arrangements for gas, high-pressure water-supply, etc. The library of the department is here.

The Geological Laboratories are in the basement of Sayles Hall. They include laboratories of general geology, geography, and mineralogy. The geographical laboratory is furnished with tables for twelve students, and with type-maps and models. The mineralogical laboratory is equipped with tables and apparatus for determinative blowpipe analysis of minerals, a high-grade petrographic microscope for microscopic analysis of rocks and minerals, and a detailed series of illustrative specimens. The region in which the University is situated offers in a small compass both simple and complex problems in field research in structural, palaeontological, and stratigraphic geology. The library

of the department contains full sets of government and state geological reports, together with general reference works and current periodicals.

The Anatomical Laboratories are in Rhode Island Hall. They consist of private rooms for the instructors, a laboratory for graduate students, a seminary room, a physiological laboratory, a laboratory for bacteriology and histology, a laboratory for neurology and embryology, and a large laboratory for elementary anatomy and the comparative anatomy of vertebrates and invertebrates. The large collection of zoölogical material and the anatomical and histological preparations of the Museum; the anatomical collection of the Rhode Island Medical Society; and rich material frequently contributed by the United States Fish Commission from the deep-sea dredging excursions, are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of a floating laboratory on Narragansett Bay.

The Botanical Laboratories are in the basement of Maxcy Hall. The larger laboratory is used for the elementary courses, and the smaller for advanced work. They are equipped with the necessary simple and compound microscopes, paraffin baths, microtomes, freezing apparatus, incubator, sterilizer, chemicals, stains, reagents, etc., and a considerable amount of plant material preserved in alcohol, formalin, and other fluids, as well as dried. The Herbarium, in an adjoining room, is accessible to advanced students in forestry and medicinal and systematic botany. Many reference books and current magazines are kept in the department rooms, in addition to the principal collection in the University Library.

The Psychological Laboratory occupies rooms in Wilson Hall. It possesses apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and other fields of research. This equipment is adapted for the illustration and demonstration of the main results of experimental work in psychology, and for carrying on original research.

The Mechanical Engineering Laboratories, library, and drafting room are situated in the Engineering Building. The laboratories are equipped with apparatus for the work of the courses in strength of materials, steam, gas, and hydraulic engineering, and metallography. They contain a 400,000-pound and a 50,000-pound Riehlé testing machine; a machine for testing full-sized timber and steel beams; a 50,000-inch-pound Olsen torsion testing machine; a machine for testing by repeated stresses; a Riehlé cement testing machine; a cross-compound condensing Corliss engine; various smaller engines, gas and gasoline engines, steam pumps, air compressors, injectors, and the necessary apparatus for testing them; a rotary fire pump, Venturi meters, weirs, and

measuring tanks; apparatus for investigating the nature and structure of alloys; a photographic dark room; and the usual small apparatus necessary to the work of such laboratories.

The Mechanical Engineering Shops, situated in Rogers Hall, are equipped for purposes of instruction. The wood-working shop is provided with large and small lathes, circular and band saws, a buzz-planer, benches, and bench tools. The metal-working shop is provided with engine lathes, hand lathes, a planer, a shaper, milling machines, large and small vertical drills, a universal grinder, a surface grinder, a cutter and reamer grinder, a drill grinder, a power hack saw, and a small foot-press. There are also a blacksmith's outfit for forming and dressing tools, and facilities for hardening and tempering. Power is furnished by two 10-horse-power electric motors.

The Mechanical Drawing Rooms are on the top floor of the Engineering Building. These rooms accommodate two hundred and fifty students. About two hundred and twenty-five valuable models in wood and metal have been collected; many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure frame, and washing tank, for preparing and developing blue-prints. Connected with the main drawing room is a library and reading room in which may be found books relating to drawing and allied subjects. A limited number of sets of drawing instruments have been provided for the use of deserving students who would otherwise be unable to pursue courses in drawing.

The Civil Engineering Drafting Rooms, library, instrument room, and offices are located on the second floor of the Engineering Building. The drafting rooms have desks for about one hundred students. The instrument room contains a complete equipment of transits, theodolites, wye-levels, dumpy levels, hand levels, plane tables, compasses, base-line apparatus, planimeters, tapes, leveling rods, telemeter rods, range poles, etc., for the field work in surveying and railroad engineering. For the work in structural engineering the department has a collection of over four hundred photographs, five hundred large blue-prints of bridges, buildings, roof trusses, etc., and a complete set of steel structural shapes and iron beam-hangers. The department has also a collection of the various rocks used as road material, a Bausch and Lomb petrographical microscope, a set of the rail sections of the American Society of Civil Engineers, and models of railway appliances and harbor improvements.

MUSEUMS

The Museums of Zoölogy and Anthropology are in Rhode Island Hall, and are open to the public daily. Students desiring to use the collections for the purpose of study or investigation receive every encouragement, the aim being to make the museums not mere exhibition rooms, but places for work. The

zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and implements from foreign countries, and a valuable collection of stone implements of aboriginal American races, including those of Rhode Island.

The Herbarium is in the basement of Maxcy Hall. The general collection is roughly estimated to contain upwards of seventy-five thousand specimens from all parts of the world, but mainly from America. The Cryptogams occupy ten cases and the seed-plants thirty. All of these are mounted and systematically arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien*. There are also several cases of unmounted specimens and duplicates. The genus *Carex* is particularly well represented, as it was the object of much special study by Col. S. T. Olney, the founder of the Herbarium.

The Museum of Fine Arts occupies the first floor of Manning Hall. It contains plaster casts of rare excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography, and art. Through the bequest of the late George W. Harris, Esq., of Boston, the museum has recently been greatly enriched by the accession of pictures by old masters of the Italian and North European schools, and of works in marble, china, glass, bronze, and silver.

The portraits, of which the University possesses a large number of valuable specimens, are hung in Sayles Memorial Hall. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of many of its former officers, and of other distinguished persons, Americans and foreigners, the history of Rhode Island being especially well represented.

EXTENSION COURSES

THE University offers during each year two series of extension courses, open to all who desire to enter. These courses are given at the University; each course consists of ten lectures or other exercises, and while not identical with the corresponding course offered to regular students, is equivalent in the general character and amount of the work required. Persons entering these courses may at their option attend merely as listeners, or may do the prescribed work and take the examination given at the end of the course.

On the completion of each course, certificates are issued to those who have done the work assigned and passed the examination. Each extension course of ten lectures or other exercises is regarded by the University as the equivalent of one-half of a regular three-hour course for one term, and is accepted by the University in fulfilment of the requirements for the degree of A.B., Ph.B., and A.M., subject to such regulations respecting entrance requirements and prescribed courses as govern regularly enrolled candidates for the respective degrees. Regularly enrolled undergraduates, however, are not given credit for extension courses. For the degree of A.M., credit for extension courses may not exceed in amount two-fifths of the requirement for the degree, and the candidate must be registered with the Dean of the Graduate Department. Those who wish a certificate or University credit should announce their intention at the time of registration; all such announcements must be made not later than the third lecture of the course.

Applications for admission to extension courses should be sent to Professor Walter Ballou Jacobs, Secretary of the Committee on Extension Courses, Administration Building, Brown University. The application should give the full name and the address of the applicant, the course or courses in which registration is desired, and, if the applicant is a teacher, the present educational position. On receipt of the fee, a card of admission is issued which must be shown at the first lecture in each course. Classes are not formed in any course for which fewer than twenty-five apply. The fee for each course is three dollars and a half, payable in advance. Students desiring a certificate or University credit pay an additional fee of one dollar and a half; this fee is due on registration and must be paid not later than the third lecture of the course. Cheques should be made payable to Brown University. They should be sent with the application if possible; if not, payment may be made at the Registrar's office, Administration Building.

The courses offered during the first half of the year 1907–8 are:

Astronomy. The Solar System. *Professor* Upton. (*Astronomy 2—E 1.*)

English. English Composition. *Professor* Benedict. (*English 1—E 1.*)

English. Shakspere as Dramatist and Poet. *Professor* Crosby. (*English 15—E 1.*)

French. French Drama—Molière. *Professor* Langdon. (*French 24—E 1.*)

German. Elementary German. *Professor* Crowell. (*German 1—E 1.*)

Greek Literature in English. Epic and Lyric Poets; the Drama. *Professor* Allinson. (*Greek 34—E 1.*)

History. The American Revolution. *Professor* MacDonald. (*History 27—E 1.*)

Physical Training. Director Helen Wilbur Paine.

ARRANGEMENTS WITH OTHER INSTITUTIONS

THE RHODE ISLAND SCHOOL OF DESIGN

THE Rhode Island School of Design, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures on art. Its school buildings and museum are near the University grounds, and its collections are open daily to the public. Through its exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this School will be open to students of the University and will be counted towards a University degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the list of studies given under the Department of Art, on page 70. Students from the Rhode Island School of Design are admitted to any classes in Brown University for which they are found to be prepared, and the University gives certain special courses for the benefit of classes from the Rhode Island School of Design.

THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

In 1902 a number of the friends of the University, in recognition of the sixtieth anniversary of the graduation of the late Professor Harkness, one of the founders of the American School of Classical Studies at Athens, united in contributing the sum of $5555, which was paid to the Treasurer of the School, to establish a fund to be known forever as "The Albert Harkness Fund for the Benefit of Brown University." By the establishment of this fund, the privilege of free tuition in the School for all adequately prepared graduates of the University is henceforth secured. Any who desire detailed information regarding the School may obtain it by applying to Professor William Carey Poland, a former Director and now a member of the Managing Committee.

THE NEWTON THEOLOGICAL INSTITUTION

The Newton Theological Institution has entered into an agreement with Brown University whereby certain work done in the University, for which a

mark of C has been awarded, or upon which the student passes an examination satisfactory to the Faculty of the Newton Theological Institution, will be credited toward graduation in the Theological course as follows: *Biblical Literature and History* 1, 2 (132 hours); 13, 17, 18, 14, 19, 20 (112 hours); 7–12 (108 hours); *English* 7 (36 hours): in all, 388 hours. The total number of prescribed hours in the Theological course at the Newton Theological Institution is 1620.

THE SCHOOL COMMITTEE OF THE CITY OF PROVIDENCE

The School Committee of the City of Providence, by special agreement, appoints a number of students as teachers in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type — of whom there are at least six (three of each sex) — are occupied in the schools each day for somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are allowed to teach and observe about five hours a week. They have considerably more freedom in the choice of subjects and of hours than those of the first type; they receive no remuneration from the city. An unusual opportunity is thus afforded students to gain at the same time a knowledge of the theory of education and experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High Schools, preference is given to those who have successfully completed this course of training as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type. The practice-teaching in the Providence High Schools is done under the following supervising teachers: Charles E. Dennis, Ph.D., Latin; Charles E. Tilley, A.M., Physics and Chemistry; Horace E. Jacobs, A.M., Latin and Mathematics; Harriet P. Fuller, A.M., Latin; M. Catherine Mahy, A.M., English; Agnes F. Williams, A.B., French; Lester B. Shippee, A.M., History and Civics; Howard D. Day, A.M., Physics and Chemistry; Adelaide H. Arnold, Ph.B., English and History.

In a similar way a number of students are appointed to places in the Providence Grammar Schools. They receive a salary of three hundred dollars a year from the city. A limited number of Seniors and Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in the High Schools. The practice-teaching in the Providence Grammar Schools is done under the following supervising teachers: Isaac O. Winslow, A.M., Grammar Grades; Mary Williams, Eighth Grade; and the Grammar Critics of the Providence Public Schools.

PROVISIONS FOR THE PERSONAL WELFARE OF THE STUDENTS

PHYSICAL TRAINING

FOR the physical training of the students excellent opportunities are offered by the Lyman Gymnasium. It is thoroughly equipped with baths, dressing rooms, bowling alleys, and all kinds of apparatus usually found in modern gymnasiums. Connected with the Gymnasium is the Colgate Hoyt Swimming Pool, seventy-five feet in length by twenty-five feet in width, with a capacity of seventy-five thousand gallons. All the gymnasium work is under the supervision of the Professor of Physical Training, who makes a thorough examination and measurement of each student on entrance, and at other times by request. Special cases are referred to Dr. G. A. Matteson, the University Physician. Such exercises are prescribed as may be necessary to give health, strength, and symmetrical development. No student is allowed to attempt any feat which is likely to result in injury. From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week. For other members of the University voluntary classes are provided. The instructor gives five-minute talks on personal hygiene and exercise. The class work consists of setting-up exercises, developing exercises, calisthenics, the use of clubs, dumb-bells, wands, and single sticks, and general athletics. Instruction is also given in swimming, a special effort being made to teach all students to swim. In all the work, the aim is to develop health, strength, and vitality.

All branches of athletics are under the management of the Brown University Athletic Association, and are controlled by a Board of Undergraduates. The Faculty Committee on Student Organizations has general oversight of the deportment and scholarship of the members of the various teams. Lincoln Field adjoins the gymnasium, and is a convenient place of exercise for the class teams and the students in general. Andrews Field, which is a mile and a half from the University, offers the usual opportunities for all the University teams. The Marston Field House, the gift of Mr. Edgar L. Marston, is fitted with dressing rooms, lockers, baths, and other accommodations.

MEDICAL CARE

Any student suffering from illness is expected at once to visit or summon the University Physician, Dr. George A. Matteson. When called to see students, the duty of the University Physician is to make one call for diagnosis and prescription at the expense of the University. For continued attendance, students will make their own arrangements with Dr. Matteson or some other physician.

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, The Charles Smith Bradley Free Bed, was established in 1872 by the payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, The George Ide Chace Free Bed, was established by the payment to the hospital of four thousand dollars by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital, according to the rules of the institution to occupy a bed in said hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

CHAPEL SERVICES

A chapel service is held in Sayles Hall every week day at 9 a.m. At the same hour the Women's College has a chapel service in Pembroke Hall. The President usually conducts the exercises in Sayles Hall, and the Dean of the Women's College the exercises in Pembroke Hall. Attendance is required of undergraduates.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public.

In 1907 the preachers at the vesper services were as follows:

Rev. Lyman Abbott, *Editor of the Outlook, New York City*

Rev. William DeWitt Hyde, *President of Bowdoin College, Brunswick, Maine*

Rev. George H. Ferris, *Pastor of the First Baptist Church, Philadelphia, Penn.*

Rev. John Hopkins Denison, *Pastor of the Central Congregational Church, Boston, Mass.*

Rev. Hugh Black, *Professor in Union Theological Seminary, New York City*

Rev. Charles H. Parkhurst, *Pastor of the Madison Avenue Presbyterian Church, New York City*

Rev. Gerald Birney Smith, *Professor of Systematic Theology in the University of Chicago*

Rt. Rev. Daniel A. Goodsell, *Bishop of the Methodist Episcopal Church*

Rev. William H. P. Faunce, *President of Brown University*

THE BROWN UNION

The Brown Union is an organization intended to promote the social and religious life of the University. Its membership is open to students, alumni, and

members of the Faculty. It occupies Rockefeller Hall, which was built especially for its use. The immediate direction of the Union is vested in a Board of Management consisting of the President of the Union and four members appointed by the Corporation. The building provides ample accommodations for the Brown University Young Men's Christian Association, which conducts voluntary Bible classes for students and maintains an employment bureau and supports philanthropic work in the city. Rooms are also provided for other religious, literary, and social organizations of the students.

STUDENT ADVISERS

Every member of the Freshman class is assigned to some member of the Faculty who acts throughout the year as a special counselor to that student. In the assignment of students to advisers the preferences of both are consulted when practicable. The system is designed to further personal intercourse between student and instructor, and to afford the student means of obtaining at any time unofficial advice on any matter connected with his college life.

DORMITORY ACCOMMODATIONS

IN the University dormitories there are in all one hundred and thirty-two single rooms and thirty-four suites. The rooms in Hope College, University Hall, and Slater Hall are rented unfurnished. Those in Maxcy Hall and Caswell Hall contain all necessary furniture, occupants providing nothing except bed-clothes and towels. A table showing the rent and location of the dormitory rooms is given in the Appendix. The prices there given include rent, heat, and service for the college year. Lighting is not included; there are meters for each room and the occupants are charged for the amount of light used each term.

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or cause to be paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in ; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

*Signed*_____

This day of 190 .

Not more than two students are allowed regularly to occupy a room or suite. No sub-letting of rooms will be allowed. When the University holds full contracts for a room, the tenant or tenants may admit to the use of the room in the daytime one or two students, but not more than two. The names of any such sub-tenants must be reported to the Registrar as soon as the arrangement for sub-tenancy is made. For each sub-tenant the University makes an extra charge of one dollar a term for service. This sum is paid by the tenant in chief if there is but one; if there are two, each pays half.

Students who desire to retain for the coming year the rooms now rented by them may do so by signing new contracts and filing them with the Registrar before 4 p.m. on May 11, 1908. All rooms not signed for on the above date will be disposed of at a drawing on May 25 at 4.30 p.m. Men intending to enter college in September can arrange to be represented at the drawing by notifying the Registrar.

UNIVERSITY FEES

FEES FOR UNDERGRADUATES. *Tuition:* $35 a term; $105 a year. *Incidentals:* $16 a term; $48 a year. *Matriculation fee:* (Freshman year only) $5. *Graduation fee:* (Senior year only) $8.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and the gymnasium, heat for these buildings and for the recitation rooms, and the wages of servants to care for them.

Special students who are taking courses amounting to less than fifteen hours a week pay in proportion to the actual amount taken.

Students leaving college before the middle of a term, unless for misconduct or failure in scholarship, pay in tuition, incidentals, and laboratory fees (exclusive of breakage, which is charged at cost) half the usual term dues, provided prompt notice of withdrawal is sent to the Registrar. Students leaving college on account of misconduct or failure in scholarship receive no reduction.

Candidates for a first degree, who do not pay four years' full tuition fees, are charged a special fee of $25 at graduation.

FEES FOR RESIDENT GRADUATE STUDENTS: *Tuition:* $50 a term; $150 a year. *Graduation fee:* for the degree of Master of Arts, $15; for the degree of Master of Science, $15; for the degree of Doctor of Philosophy, $25.

Graduate students who are taking courses amounting to less than fifteen hours a week pay $10 for each three-hour course; if such students count towards an advanced degree work done as undergraduates, they pay also a special fee of $25.

A candidate in residence for the degree of Master of Arts or Master of Science who has paid full tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of Master of Arts, who without remitting his studies becomes a candidate for the degree of Doctor of Philosophy, is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of Doctor of Philosophy who has paid full tuition for two years may, if necessary to the attainment of his degree, continue his studies for two years more without additional charge.

FEES FOR NON-RESIDENT GRADUATE STUDENTS: *Registration fee:* $25. *Tuition:* $10 a term; $30 a year. *Examination fee:* $15.

A non-resident candidate is entitled, upon payment of the registration and tuition fees, to take one three-hour course in residence. For each additional course taken in residence a fee of $10 a term is charged.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge, except for work taken at the University.

LABORATORY FEES. In addition to the regular fees mentioned above, the following fees are charged for laboratory courses. These fees cover the cost of ordinary supplies; special supplies and breakage are charged extra. *Chemistry* 1, 2, 3, $3 *a term. Chemistry*, advanced 3-hour course, $5 *a term. Chemistry*, advanced 6-hour course, $10 *a term. Botany*, each 3-hour course, $3 *a term. Comparative Anatomy*, each 3-hour course, $5 *a term. Physics*, each 3-hour course, $5 *a term. Mechanical Engineering*, each 3-hour course, $5 *a term. Electrical Engineering*, each 3-hour course, $5 *a term. Geology*, each 3-hour course, $3 *a term.*

GUARANTEE AND TERM BILLS. At the time of admission every student is required to present a guarantee signed by his parent or guardian or some other responsible person, covering all college expenses, unless his term bill is paid at the time of registration and his annual room rent at the beginning of the year.

Bills are sent out as soon as possible after the beginning of each term and are due on presentation.

ESTIMATE OF ANNUAL EXPENSES. The following is an approximate estimate of the annual expenses of a student who occupies (with a room-mate) a dormitory room. It does not include the matriculation fee of five dollars in the first year, the graduation fee of eight dollars in the fourth year, nor outlay for clothes and travelling or other strictly personal expenses.

	Moderate	*Liberal*
Tuition	$105.00	$105.00
Incidentals	48.00	48.00
Room rent, including heat and service	60.00	187.50
Board (40 weeks)	150.00	240.00
Books and laboratory expenses	30.00	75.00
Total	$393.00	$655.50

The Brown University Coöperative Refectory, organized and controlled by students, furnishes board at cost; at present the price is $3.75 a week. The Brown Union conducts a restaurant for its members in Rockefeller Hall; at present the price is $5 a week.

Students who need to earn money find in the city numerous opportunities for doing so by giving private instruction, by teaching in evening schools, and in various other ways.

FINANCIAL AID TO STUDENTS

THE aid which Brown University gives to students of limited means is granted under three conditions: (1) the recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average of C is expected; (3) the recipient must be in need of the financial assistance rendered. The aid rendered is of three kinds: (1) awards from fellowship, scholarship, and aid funds; (2) loans; (3) payment in cash or in credit on term bills for services rendered.

The administration of the scholarship and aid funds is in the hands of a committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the committee. Applications for scholarships for a given academic year should be filed with the Dean before May 1 of the preceding year. Action upon all applications is taken by the committee before July 1. The President has charge of the administration of fellowships, loan funds, and the service system.

[A] FELLOWSHIP, SCHOLARSHIP, AND AID FUNDS

THE GRAND ARMY OF THE REPUBLIC FELLOWSHIP. The income of a fund of ten thousand dollars given by the Grand Army of the Republic, Department of Rhode Island, is annually awarded to a graduate of Brown University, of acknowledged excellence in scholarship and character. The recipient must be enrolled as a candidate for the degree of Doctor of Philosophy (or have obtained that degree), must reside at Brown University, and must devote himself exclusively to advanced liberal study. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. Descendants of Union Veterans of the Civil War are always to be preferred when the other qualifications of candidates are equal. The political or religious preferences of candidates cannot be taken into consideration. The President is authorized to make such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than May 15. The Grand Army of the Republic Fellow for 1907–8 is

PHILIP BARDWELL HADLEY, PH.B.

TEACHING FELLOWSHIPS. In addition to the foregoing a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

FUNDED SCHOLARSHIPS. There are now seventy-six scholarships of one thousand dollars, each with a designated name and yielding the beneficiary forty-five dollars annually; with the exceptions indicated below, they bear the names of their founders. The income is awarded annually according to the conditions attaching to each fund.

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS

THE FOUR UNIVERSITY SCHOLARSHIPS

THE PRESIDENT'S SCHOLARSHIP, founded by President Sears.

THE SIX ALVAH WOODS SCHOLARSHIPS

THE JAMES H. DUNCAN SCHOLARSHIP

THE ISAAC DAVIS SCHOLARSHIP

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP

The Crocker Scholarship, founded by Robert H. Ives and Thomas P. Ives, Trustees.

The Clark Scholarship, also founded by the Messrs. Ives.

The George K. and H. A. Pevear Scholarship

The Joseph Charles Hartshorn Scholarship

The Rogers High School Scholarship, founded by William Sanford Rogers.

The James Wheaton Scholarship

The Charles Thurber Scholarship

The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.

The Hezekiah S. Chase Scholarship

The William Bucknell Scholarship

The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.

The Horatio N. Slater Scholarship

The Earl P. Mason Scholarship

The Newport Scholarship, founded by William Sanford Rogers.

The Alexis Caswell Scholarship

The Three Henry Jackson Scholarships

The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.

The Albert Day Scholarship

The Henry P. Kent Scholarship

The Romeo Elton Scholarship

The Five Annie E. Waters Scholarships

The Lewis Fairbrother Scholarship, founded by Mrs. Lewis Fairbrother.

The George Lawton Scholarship

The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship

The Two S. S. Bradford Scholarships

The Francis R. Arnold Scholarship

The Cornelia E. Green Scholarship

The Henry Clifford Knight Scholarship, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

The Thurston Scholarship, founded by the Honorable Benjamin F. Thurston, LL.D., of the class of 1849.

The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, D.D., of the class of 1821.

The James Fletcher Blackinton Scholarship, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

The Five William A. White Scholarships, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

The Richards Scholarship, founded by the Rev. William Coolidge Richards, of the class of 1837.

The Samuel White Duncan Scholarship, founded by Mrs. Mary Duncan Harris.

The Benjamin Hutchinson Judah Scholarship

The S. Dryden Phelps Scholarship, founded by the Rev. S. Dryden Phelps, D.D., of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

There are also the following scholarships of larger amounts:

The Two George J. Sherman Scholarships, paid from the income of a fund of two thousand five hundred and sixty-five dollars.

The Bartlett Scholarship of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarship of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

The Rebecca A. Wheeler Scholarship of fifteen hundred and seventy-one dollars; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

The Scholarship of the Class of 1838 of thirty-eight hundred dollars.

The Joseph Charles Hartshorn Scholarship of two thousand dollars.

The Two Banigan Scholarships of three thousand dollars each, founded by Joseph Banigan of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

The George Ide Chace Scholarship of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Senior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the library of the University.

The Abby Wheaton Chace Scholarship of four thousand dollars, also

founded by Professor George Ide Chace; the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Junior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the library of the University.

The John L. Lincoln Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Truman Beckwith Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

The Two Walter G. Webster Scholarships, founded by the Rev. Walter G. Webster, of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the City of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

The S. W. Marston Scholarship, founded in the name of his father by Mr. Edgar L. Marston of New York. This scholarship yields two hundred dollars a year, and is open to any graduate of William Jewell College who may be recommended by the President of that institution.

The Three E. L. Marston Scholarships, founded by Mr. Edgar L. Marston of New York. Each of these scholarships yields two hundred dollars a year. The first scholarship is open to any graduate of La Grange College who may be recommended by the President of that institution. The second is open to any graduate of Baylor University under similar conditions. The third is open to any graduate of the Central High School in St. Louis, Mo., subject to the recommendation of the Principal.

The following scholarships have been in part established:

The Two George Hale Bacon Memorial Scholarships paying each recipient one hundred and fifty dollars a year, founded by George A. Bacon in the name of his father. The awards are made only to young men in need of assistance and solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

AID FUNDS. There are four aid funds at the disposal of the University. The income of these funds is divided into scholarships of varying amounts which are awarded under the general conditions applicable to all scholarships. They are as follows:

The Aaron Lucius Ordway Memorial Fund of twenty-five hundred dollars, founded by Mr. Samuel H. Ordway of New York in the name of his father, "the income to be used in the discretion of the President to assist regular students of the University who are in need of assistance. Each student who accepts such assistance shall in writing acknowledge the receipt of the same and pledge himself to repay the amount so received by him as soon as he can conveniently afford to do so, all sums so repaid to be added to the principal."

The Aid Fund, established by friends of the University in 1868 and now amounting to $9300.

The Daniel W. Lyman Fund for Students, established by Daniel W. Lyman and now amounting to $72,250.

The William Grosbeck Goddard Memorial Fund of $3500, founded by Col. Robert H. I. Goddard in the name of his son, "the income to be used by the President or acting President of the University, in his discretion, to aid young men without adequate means to obtain an education. Each beneficiary shall give a receipt for all money received, and shall agree, without making any written pledge, to refund amounts received by him whenever he can do so conveniently."

UNIVERSITY SCHOLARSHIPS. In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. The amount at present exceeds $15,000, and is used to provide University Scholarships, which are of three grades:

(1) A small number yielding each $50 a term or $150 a year, awarded to a few Juniors and Seniors of especially high scholarship.

(2) A number yielding each $35 a term or $105 a year.

(3) A number yielding each $20 a term or $60 a year, used in part to supplement the smaller endowed scholarships, and also for those students needing relatively less assistance.

The University Scholarships are taken directly from the University treasury and employ funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of these scholarships will regard them as in a certain sense loans, and will at some time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

[B] LOAN FUNDS

I. The Alumni Loan Fund, now amounting to about $4300, was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. There is another fund, of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

[C] SERVICE

The University is able to give employment to a number of students as monitors, assistants in the libraries and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are ordinarily required of any student; the compensation is made at definite rates. At present about $6000 a year is appropriated for service, and employment is given to about eighty students, who receive amounts varying from $20 to $40 a term. The University also coöperates with the Young Men's Christian Association in securing employment for students by business houses and residents of the city.

PREMIUMS, PRIZES, AND HONORS‡

FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums, derived from the income of a fund presented to the University in 1843 by President Wayland, are awarded each year to those members of the Freshmen class who upon special examination are found to have attained the highest excellence in the studies required for admission to the University in Greek, Latin, and French. First and Second Premiums are awarded in each of these studies. The examinations deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Special importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English. The examination in Greek occurs on the second Saturday of the first term, that in Latin on the third Wednesday, and that in French on the fourth Wednesday. The award of these Premiums in 1907 was as follows:

‡ The premiums and prizes enumerated here are, with the exception of the *Society of Colonial Dames Prize in American History* (see page 174), intended for men. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, one is awarded her by the Dean of the Women's College.

In Greek *the first premium to* Wallace Elmer Harris, *instructed in the Classical High School, Providence.*

The second premium to Ellis Laurie Yatman, *instructed in the Moses Brown School, Providence.*

In Latin, *the first premium to* Albert Arnold Bennett, Jr., *instructed in the Hope Street High School, Providence.*

The second premium to Alan Arthur Wood, *instructed in the Classical High School, Providence.*

In French *the first premium to* Howard Everett Thompson, *instructed in the High School, Westfield, Massachusetts.*

The second premium to Lewis Alfred Neufeld, *instructed in Erasmus Hall High School, Brooklyn, N. Y.*

The Hartshorn Premiums, three in number, derived from the income of a fund of one thousand dollars, presented to the University in 1872 by Joseph Charles Hartshorn, of the class of 1841, are awarded to those members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination occurs on the third Saturday of the first term. The award of these premiums in 1907 was as follows:

The first premium to Albert Arnold Bennett, Jr., *instructed in the Hope Street High School, Providence.*

The second premium to John Osborn Chesley, *instructed in the High School, Amesbury, Massachusetts.*

The third premium to Morris Jacob Wessel, *instructed in Perkiomen Seminary, Pennsburg, Pennsylvania.*

The Herman G. Possner Prizes in German are awarded to the two members of the Freshman class who upon special examination show the highest excellence in the studies required for admission to the University in German. The examination occurs on the fourth Saturday of the first term. In 1907 these prizes were awarded as follows:

The first prize to Edwin Arthur Dow, *instructed in the Cranston High School, Auburn.*

The second prize to Morris Jacob Wessel, *instructed in Perkiomen Seminary, Pennsburg, Pennsylvania.*

FOR EXCELLENCE IN UNIVERSITY STUDIES

The Carpenter Prizes for Elocution, derived from the income of a fund established in 1867 by Thomas Carpenter, are awarded annually to the three members of the Sophomore class to whom are assigned the first, the second, and the third rank of excellence in elocution. The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the

first day of February. A preliminary contest for the purpose of selecting the speakers takes place in the latter part of the winter term; all arrangements for it are in the hands of the Professor of Public Speaking. The committee of award consists of five members, — the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class during the first term of the year; no one who is or has been a member of the class is eligible. In 1908 the contest will be held in Manning Hall on May 7. In 1907 these prizes were awarded as follows:

The first prize to Chauncey Earle Wheeler
The second prize to George Danforth Taylor
The third prize to John Howard Lever

The Hicks Prizes for Excellence in Debate, established by the Honorable Ratcliffe Hicks, of the class of 1864, are annually awarded as follows:

I. Two prizes of fifty dollars each, one in each of the two series of contests for the selection of the representatives of the University in the intercollegiate debates. In each instance the prize is given to the man showing the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are three, appointed by the Debating Union. In 1906–7 these prizes were awarded as follows:

The first prize to Harry Duane Bruce
The second prize in equal parts to Claude Raymond Branch *and* Ralph Norton Dennett

II. A first prize of thirty dollars and two second prizes of twenty dollars to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least a month before the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three, one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. The first prize may be withheld if no one is adjudged to deserve it. In making the award regard is given to thought, style, and delivery. In 1908 the public debate will be held on May 21. In 1907 these prizes were awarded as follows:

The first prize to Charles Evans Hughes, Jr.
The second prize in equal parts to Donald LeRoy Stone *and* Albert Clark Thomas

The Dunn Premium. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of Professor Robinson Potter Dunn, is given, at the end of the Junior year, to the student having the

highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them. In 1907 this premium was awarded to

HARRY WOLCOTT ROBBINS

THE CARPENTER PREMIUMS, two in number, are derived from the income of funds established in 1867, one by Thomas Carpenter and one by Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life,—ability, character, and attainment." In 1907 these premiums were awarded to

DAVID WILKINSON SMITH *and* LEON EDGAR TRUESDELL

THE HOWELL PREMIUM. The income of a fund amounting to one thousand dollars, presented to the University in 1867 by Gamaliel Lyman Dwight, is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the Premium a student must, in each term from the Freshman year to the end of the second term in the Senior year, take at least one of the elective courses in pure or applied mathematics. In 1907 this premium was awarded to

HOMER NEWTON SWEET

THE CLASS OF 1873 PRIZE. The income of a fund of one thousand dollars, presented to the University by the class of 1873, is annually awarded to that member of the Senior class who writes the best essay on a historical or a philosophical subject. The subjects, which are of a historical nature one year and of a philosophical nature the next, are assigned by the respective departments. For 1906–7 the subject was: *The distinction between sciences of fact and sciences of value.* For 1907–8 the subject is: *The relations between England and Spain in the reign of Philip II.* In 1907 the prize was awarded to

LEON EDGAR TRUESDELL

THE FOSTER PREMIUM IN GREEK is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Honorable Lafayette Sabine Foster, LL.D., of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's *Iliad*, or in the *Oration on the Crown* by Demosthenes." The examinations are open to the members of the Senior class. The next examination will be held early in May, 1908; candidates will be examined in the *Iliad*. In 1907 this premium was awarded to

ZECHARIAH CHAFEE, JR.

THE LUCIUS LYON PREMIUMS IN LATIN are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded on the basis of a special examination held during the last term of the Senior year. The examination may relate to any or all of the following subjects: the Latin language, Roman literature, Roman history. The President of the University and the head of the Latin department prescribe the conditions for admission to the examination. In 1907 these premiums were awarded as follows:

The first premium to DAVID WILKINSON SMITH
The second premium to GEORGE HURLEY
The third premium to JOHN THOMAS BANNAN

THE BENNETT PRIZE. The income of a fund of four hundred dollars, established by Philo S. Bennett in 1905, will be awarded annually for an essay on Free Government. The conditions governing the competition will be announced later.

THE CLASS OF 1880 PRIZES, established in 1905 by the class of 1880, are annually awarded to the undergraduates of Brown University who show the most ability in presenting arguments on some current question of importance to Brown University. The subject for discussion, the time, and the manner of presentation are all determined by representatives of the English department in consultation with the President of the Debating Union and the editors-in-chief of the *Brunonian* and the *Brown Daily Herald*. The prizes are awarded by a board of five judges: two are appointed by the President of the University, two by the undergraduate members of the committee in charge; the fifth is a member of the English department.

In 1908 a first prize of forty dollars and a second prize of twenty-five dollars will be awarded to the students who show the most ability in a public discussion of the topic chosen. This discussion will be held on January 23; a preliminary debate will be held on January 16. A prize of thirty-five dollars will be awarded to the writer of the best argumentative essay of from three thousand to five thousand words upon the same subject. The essays must be typewritten and signed with an assumed name; they must be in the hands of the Registrar before 4 p.m., January 14. The prize for the essay may be withheld if no essay is deemed worthy, or may be divided between the first and the second competitors. A student may compete for both prizes. For 1908 the subject chosen is: *Are fraternity houses detrimental to the democratic life of Brown University?* In 1907 these prizes were awarded as follows:

The first prize for the debate to ZECHARIAH CHAFEE, JR.

The second prize for the debate to Harry Hadley Thurlow
The prize for the essay in equal parts to Lee Heyer White
and Grey Huntinford Wyman

The Mohonk Prizes. For 1907–8 the Honorable George H. Utter offers three prizes, to be known as the Mohonk Prizes. They are: a prize of thirty dollars for an essay of from three to five thousand words upon the subject, *The contribution of the second Hague Conference (1907) to international peace;* a first prize of forty dollars and a second prize of thirty dollars to be awarded upon a debate on the same topic. The competition is open to members of the Senior and Junior classes. A student may compete for both prizes. The essays must be typewritten and signed with an assumed name; they must be handed to the Registrar on or before April 9. The trial debate will occur on April 16, the final debate on April 23. In 1907 the subject was: *The applicability of international arbitration to the Russo-Japanese differences of 1904;* the prizes were awarded as follows:

The prize for the essay to John Courtland Knowles
The first prize for the debate to Oscar Maddaus
The second prize for the debate to Leslie Stephen High

The Society of Colonial Dames Prize in American History. The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year, and the name of the successful competitor is announced at Commencement. The subject for the essay in 1907–8 is: *The Public Life of Nathanael Greene.* In 1907 the subject was: *The part taken by the New England clergy after 1760 in bringing on the American Revolution;* the prize was awarded to

Maude Farnum

The William Gaston Scholarship. This fund of five thousand dollars was established in 1899 by the widow and children of the Honorable William Gaston, LL.D., of the class of 1840. Its income is awarded annually by the Faculty solely upon merit, without reference to financial condition. For 1907-8 this scholarship has been awarded to

Earle Winfield Peckham

The Gaston Prize Medal for Excellence in Oratory. From the income of a fund of three thousand dollars established in 1894 as a memorial to the Honorable William Gaston, LL.D., of the class of 1840, a gold medal is

annually awarded to the member of the graduating class who delivers the best original oration in English. The orations are not to exceed fifteen hundred words. In order to compete for the prize a student must deposit with the Registrar a typewritten copy of his oration, signed with an assumed name, six weeks before the public competition. From these orations a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award, regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement. In 1908 the orations must be deposited with the Registrar on or before April 2; the public competition will be held on May 14. In 1907 this prize was awarded to

Joseph Boardman, Jr.

Appointments for Commencement. At Commencement five members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One speaker is the winner of the Gaston medal; the other four are selected by the Faculty from nominations by the heads of departments. The basis of selection is scholarship, ability to write, and ability to speak. The students thus appointed confer with the Professor of Rhetoric, who advises with them in regard to the choice and treatment of their subjects, and with the Professor of Public Speaking, who trains them in the delivery of their orations. Before Commencement each speaker must hand to the Professor of Rhetoric a copy of his oration for preservation in the University Library. In 1907 the speakers appointed were:

Zechariah Chafee, Jr. — John Courtland Knowles
Ralph Norton Dennett — William Nisbet Ross

Term Honors in any department are awarded to those who receive the mark H in a given term.

Final Honors in any department are awarded, at the completion of the studies leading to a bachelor's degree, to those who have secured: (1) Term Honors in the department in courses aggregating eighteen or more term hours; (2) a mark of C or H in eighty-five per cent of all their courses of study. In any department, however, certain specified courses may not be included in those counted for Final Honors. The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue. In 1907 Final Honors were awarded to members of the Senior Class as follows:

Claude Raymond Branch, *Roman Literature and History.*
George Earle Burnham, *Civil Engineering.*
Zechariah Chafee, Jr., *English, Greek Literature and History, History, Mathematics, Philosophy, Roman Literature and History.*

Harry Wright Collins, *Germanic Languages and Literatures.*
Ralph Norton Dennett, *English.*
George Hurley, *English, Philosophy, Roman Literature and History.*
John Courtland Knowles, *Mathematics, Romance Languages and Literatures.*
Charles Dillon McEvoy, *Philosophy, Romance Languages and Literatures.*
Joseph James Malcolm, *Mechanical Engineering, Physics.*
Harold Edmund Miller, *Civil Engineering.*
William Partridge, Jr., *Germanic Languages and Literatures.*
William Nisbet Ross, *Mathematics, Physics.*
Benjamin Graves Sinclair, *Philosophy.*
David Wilkinson Smith, *Greek Literature and History, Roman Literature and History.*
Leon Edgar Truesdell, *English, Philosophy, Social and Political Science.*
Leah Brown Allen, *Astronomy.*
Anne McCurdy Bass, *Romance Languages and Literatures.*
Mildred Allen Carnes, *Education, History, Germanic Languages and Literatures.*
Annie Cocks Clark, *Social Science.*
Marion Shirley Cole, *English, Germanic Languages and Literatures.*
Elizabeth Robinson Crapon, *Germanic Languages and Literatures.*
Nellie Veronica Donovan, *Germanic Languages and Literatures.*
Kathrine Marion MacKenzie, *English, Romance Languages and Literatures.*
Bertha Corinne Mathieu, *Romance Languages and Literatures.*
Louise Baggott Morgan, *English, Greek Literature and History, Roman Literature and History, Romance Languages and Literatures.*
Harriet Bennett Munro, *Roman Literature and History.*
Louise Schutz, *English, Greek Literature and History, Germanic Languages and Literatures, Roman Literature and History, Romance Languages and Literatures.*

DEGREES CONFERRED IN 1907

DEGREES IN COURSE

BACHELOR OF ARTS

Francis Maurice Anderson
John Thomas Bannan
James Harvey Baugh
Joseph Boardman, Jr.
Claude Raymond Branch
Edward Joseph Brennan
Archibald Douglas Brown
Harold Learned Brown
George Ambrose Buckley
Zechariah Chafee, Jr.

George Wilder Cheney
Harry Wright Collins
Samuel Edward Compton
Robert Sylvester Curley
John Leo Curran
Ralph Norton Dennett
William Obed Devoll, Jr.
John Silveira Enos
Charles Fowler, Jr.
Arthur Willis French
Dana Taylor Gallup
Edwin Ruthven Gordon
Laurence Rich Grose
Joseph Isaac Grover
Ralph Vincent Hadley
Herbert Elisha Harris
Walter Emerson Hatch
Thomas Leo Heffernan
Levi Samuel Hoffman
William Francis Huntley
George Hurley
Harold Wells James. *With the class of* 1906
Edmund Talma Jillson, Jr.
Robert Bradford Jones
Preston Day Jones
Harvey McLeod Kelley
Manley Spencer Kelley
Frederick Walls Lane
Leonard Simmons Little
Charles Dillon McEvoy
John Henry McLean
George Felix Mattuck
Royal McKnight Merritt
Ephraim Butler Moulton
Ira Leston Nickerson
William Partridge, Jr.
Leon Frank Payne
William Nisbet Ross
Richard Arthur Sanders
Ulysses Sylvester Grant Scull
David Wilkinson Smith
William Almor Spinney, Jr.
Samuel Adams Steere
Leon Edgar Truesdell
Albert Easton White
Lee Heyer White
William Kenneth White

Leah Brown Allen
Anne McCurdy Bass
Lizzie Alma Blackburn
Alice Marie Blessing
Mildred Allen Carnes
Martha Warren Case
Gertrude Mary Clark
Blanche May Crapo
Elizabeth Robinson Crapon
Nellie Veronica Donovan
Amey Brown Eaton
Bessie Alice Gatie
Gladys Mitchell Hagood
Zerrie Fitz Randolph Huntsman
Helma Augusta Johnson
Rachael Gertrude McAuliffe
Kathrine Marion MacKenzie
Grace Edith Mahy
Bertha Corinne Mathieu
Louise Baggott Morgan
Harriet Bennett Munro
Claribel Redford
Ethel Ida Rowand
Louise Amelia Schofield
Louise Schutz
Beulah Sheldon
Eunice Clara Smith
Ethel May Washburn
Mary Alice Whittlesey
Lillian Arthur Winsor

BACHELOR OF PHILOSOPHY

Frederick Huntington Babcock
Asa Sheldon Briggs
William Edward Bright
Harry Duane Bruce

William Phineas Burnham
Eugene Clayton Carder
Phanuel Bishop Covell
Myron Shirley Curtis
Alfred William Dickinson
Herbert Larned Dorrance
William Matthew Dugan
Lloyd Champlin Eddy
Horace Clemmer Funk
Charles Mayo Hamlin
Oliver James Barton Henderson
Herbert Beers Keen
John Courtland Knowles
Vernon Krieble Krieble
Charles Daniel McCann
Ralph Wilbur McPhee
Thomas Randolph Marshall
Richard Hagan Miller
Harold William Paine
Harry Edgar Pearsall
Ernest Shaw Reynolds
Edwin Vose Ross
Victor Arthur Schwartz
Arthur Gray Seabury
Benjamin Graves Sinclair
Walter Clifton Slade
Arthur Chester Snow
Frank Gideon Spencer, Jr.
Homer Newton Sweet
Harry Hadley Thurlow
Raymond Goodwin Von Tobel
Harold Allen Walker
Arthur William Wathen
Ernest Milton Watson

Mary Louise Adams
Annie Cocks Clark
Marion Shirley Cole
Ida Marion Grimshaw
Bertha Ethel Hopkins
Harriet Louvan Hoyle
Alice Rhodes Martin
Bertha Elizabeth Piggott
Ethel Louise Robinson
Ida Lawrence Rollins
Sarah Ida Shapiro
Blanche Luella Smith

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Myron Hopkins Strong Affleck
Sidney Raymond Bellows, Ph.B.
Arthur Garfield Bruce
George Earle Burnham
Arthur William Bushell
Henry William Corp
George Walker Davis
Harold Edmund Miller
Edwin James Potter
William Whyte Reynolds
Everett Harold Swett, Ph.B.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Leo Matthew Bannon
William Arthur Kennedy, Ph.B.
Joseph James Malcolm
Everett Mitchell Paddock

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

George Campbell
Henry Emmanuel Hallborg
Charles Adolph Lundell

MASTER OF ARTS

Bessie Lenore Adams, A.B.
Clare Reynolds Bass, Ph.B.
Henry Godfrey Carpenter, Ph.B.
Howard Wilbur Congdon, A.B.

Jason Osborne Cook, A.B.
Earle Bennett Cross, A.B.
John Morton Ferrier, A.B.
Robert Franklin Field, A.B.
Fred'k Chas. Hicks, Ph.B., LL.B.
Marie Louise Laviolette, A.B.
Russell Crosby Lowell, Sc.B.
Annie Elizabeth McAllister, A.B.
James Bernard McFadden, A.B.
Philip Victor Marcus, Ph.B.
Louise Baggott Morgan
Emily Gardner Munro, Ph.B.
Carl Nathaniel Nutter, A.B.
William Partridge, Jr.
Ernest Shaw Reynolds
Charles Edwin Robinson, A.B.
Marjorie Wadsworth Shaw, A.B.
Charles Sawyer Shinn, Ph.B.
Benjamin Graves Sinclair
David Wilkinson Smith
Harry Hadley Thurlow
Leon Edgar Truesdell
Joseph Lewis Wheeler, Ph.B.
Stephen Edward Wright, Ph.B.

MASTER OF SCIENCE

Albert Whitman Claflin, Ph.B.
Maurice Louis Dolt, Ph.B.
Frederick George Keyes, Sc.B.

DOCTOR OF PHILOSOPHY

Victor Emmanuel Emmel, Sc.M.
THESIS: "Regeneration in Homarus Americanus."

Gertrude Ella Hall, A.B.
THESIS: "German Travelers in England in the Eighteenth Century."

Louis Albert Reese, A.M.
THESIS: "The Admission of Kansas into the Union."

Frank Arthur Updyke, A.M.
THESIS: "International Negotiations in connection with the War of 1812, including the Treaty of Ghent and the Execution of the Articles of the Same."

DEGREES OUT OF COURSE

BACHELOR OF ARTS

Edwin Peleg Dawley, *with the class of 1874*
Forrest Greenwood Eddy, *with the class of 1874*
Henry Mixter Penniman, *with the class of 1874*

BACHELOR OF PHILOSOPHY

Frederic Wright Bliss, *with the class of 1878*
Howard Donald McLeod, *with the class of 1887*
Collins Millard Graves, *with the class of 1895*

HONORARY DEGREES

MASTER OF ARTS

Stephen Harris Arnold
John Hope

DOCTOR OF DIVINITY

Charles Frederic Aked
Charles Brown Elder
George Hooper Ferris
Howard Benjamin Grose

DOCTOR OF SCIENCE

Wallace Clement Sabine
George Frederick Jelly

DOCTOR OF LAWS

Carl Barus
Arthur Lewis Brown

LIST OF STUDENTS ARRANGED BY CLASSES

GRADUATES

Mary Louise Adams — *Providence*
Ph.B. (*Brown University*) 1907. Education. Registered candidate for A.M.

Charles Raymond Austin — *Providence*
A.B. (*Brown University*) 1902; A.M. 1903. Latin, English, Greek. Registered candidate for Ph.D.

James Albert Baber — *Jackson, Tenn.*
Sc.B. (*National Normal University*) 1885; A.B. 1887; A.M. 1889. Social and Political Science, Education, Philosophy. Enrolled candidate for A.M.

Mary Elizabeth Bannan — *Providence*
Ph.B. (*Brown University*) 1905. Education, German. Enrolled candidate for A.M.

Irving Judson Beckwith — *McDonough, N. Y.*
A.B. (*Brown University*) 1904. Social Science, Biblical Literature. Enrolled candidate for A.M. *in absentia.*

Charles Barrows Bennett — *Providence*
Ph.B. (*Brown University*) 1906. Comparative Anatomy, acteriology, Organic Chemistry. Registered candidate for Ph.D.

Harriet May White Blake — *Providence*
A.B. (*Smith*) 1886; A.M. (*Brown University*) 1895. Sociology.

Marion Hamilton Bonn — *Providence*
Ph.B. (*Brown University*) 1905. Mathematics. Registered candidate for A.M.

William Alva Brady — *Coweset*
Ph.B. (*Brown University*) 1894. History, Education. Enrolled candidate for A.M.

Edgar Sheffield Brightman — *Wickford*
A.B. (*Brown University*) 1906. Philosophy, Greek, Biblical Literature. Enrolled candidate for A.M.

Samuel James Cann — *Providence*
A.B. (*Arcadia University*) 1902; B.D. (*Newton Theological Seminary*) 1905. Philosophy. Registered candidate for Ph.D.

Mildred Allen Carnes — *Providence*
A.B. (*Brown University*) 1907. Education, Latin, History. Enrolled candidate for A.M.

Alice Sheehan Carroll — *Providence*
A.B. (*Brown University*) 1903. Education. Registered candidate for A.M.

Clarence Marsh Case — *Noblesville, Ind.*
A.B. (*Earlham*) 1905. Social and Political Science. Enrolled candidate for A.M.

Martha Warren Case — *Providence*
A.B. (*Brown University*) 1907. Education. Registered candidate for A.M.

Gertrude Mary Clark — *Providence*
A.B. (*Brown University*) 1907. Education, French. Registered candidate for A.M.

Paul Franklin Clark — *Providence*
Ph.B. (*Brown University*) 1904; A.M. 1905. Bacteriology, Comparative Anatomy, Physiology. Enrolled candidate for Ph.D.

Lillian Maud Coffin *Johnston*
A.B. (*Brown University*) 1904. Education, History, English. Enrolled candidate for A.M.

Marion Shirley Cole *Bristol*
Ph.B. (*Brown University*) 1907. French. Registered candidate for A.M.

Blanche May Crapo *Taunton, Mass.*
A.B. (*Brown University*) 1907. Education. Registered candidate for A.M.

Earle Bennett Cross *Providence*
A.B. (*Brown University*) 1905; A.M. 1907. Biblical Literature. Enrolled candidate for Ph.D.

Robert Sylvester Curley *Upton, Mass.*
A.B. (*Brown University*) 1907. Mechanical Engineering, Physics. Registered candidate for A.M.

Edgar James Curry *Hill's Grove*
A.B. (*Ohio Wesleyan University*) 1901; B.D. (*Drew Theological Seminary*) 1904; A.M. (*New York University*) 1905. Philosophy, History. Registered candidate for Ph.D.

Nelson Clark Dale *Pittsfield, Mass.*
B.S. (*Middlebury College*) 1903. Geology, Mineralogy, Comparative Anatomy. Registered candidate for A.M.

Charles Abbott Davis *Providence*
B.S. in M.E. (*Worcester Polytechnic Institute*) 1891. Geology, Botany. Registered candidate for Sc.M.

Walter William Deckard *Arlington*
Sc.B. (*Rio Grande College*) 1893; A.B. and D.B. (*Hillsdale College*) 1899. Political and Social Science, Philosophy, Hebrew. Registered candidate for Ph.D.

Theodore Everett Dexter *Central Falls*
A.B. (*Brown University*) 1898. Political and Social Science. Registered candidate for A.M.

Maurice Louis Dolt *Dollon (Sarthe), France*
Ph.B. (*Brown University*) 1906; Sc.M. 1907. Chemistry, Bacteriology. Enrolled candidate for Ph.D.

Harry Anthony Domincovich *Philadelphia, Penn.*
A.B. (*Haverford*) 1903; A.M. (*Harvard*) 1904. Social Science.

Dana Fletcher Downing *West Newton, Mass.*
A.B. (*Brown University*) 1900; M.D. (*Boston University*) 1904. Social Science. Enrolled candidate for A.M. *in absentia.*

Henry Englander *Providence*
A.B. (*University of Cincinnati*) 1901; A.M. (*Brown University*) 1906. Hebrew, Greek. Enrolled candidate for Ph.D.

Maude Farnum *Providence*
Ph.B. (*Brown University*) 1902; A.M. 1905. History. Registered candidate for Ph.D.

Wirt T Fellows *McMinnville, Oregon*
B.L. (*McMinnville College*) 1893; A.B. (*Brown University*) 1898. History, Biblical Literature. Enrolled candidate for A.M.

Robert Franklin Field *Providence*
A.B. (*Brown University*) 1906; A.M. 1907. Mechanics.

Charles Rivers Frazer *Auburn, Ala.*
A.B. (*Shaw University*) 1900; A.B. (*University of Chicago*) 1906. French. Registered candidate for A.M. *in absentia.*

Kwantaro Fujita *Tokushima, Japan*
Ph.B. (*University of Minnesota*) 1902. Political Science, History. Enrolled candidate for A.M.

Robert Jaquith Fuller *North Attleboro, Mass.*
A.B. (*Brown University*) 1898. Education, Philosophy, Political and Social Science. Registered candidate for A.M.

Dana Taylor Gallup *Old Mystic, Conn.*
A.B. (*Brown University*) 1907. Education, Social and Political Science, Philosophy. Enrolled candidate for A.M.

Ida Mason Gardner *Providence*
Hon. A.M. (*Beloit*) 1895; Ph.B. (*University of Chicago*) 1898. History, Education. Registered candidate for A.M.

Cardinal Goodwin *Lyndonville, Vt.*
A.B. (*Brown University*) 1905. History, Political and Social Science. Registered candidate for A.M.

Frank Murray Greenlaw *Newport*
S.B. (*Massachusetts Institute of Technology*) 1890. Geology.

Merritt Lodge Gregg *Mountain Dale, N. B.*
A.B. (*Bates*) 1906. Political and Social Science. Registered candidate for A.M.

Emma Helena Gregory *Providence*
A.B. (*Wellesley*) 1891; A.M. (*Brown University*) 1901. Greek.

Philip Bardwell Hadley *Shelburne Falls, Mass.*
Ph.B. (*Brown University*) 1903. Comparative Anatomy, Bacteriology. Enrolled candidate for Ph.D.

Joseph Leo Harson *Providence*
Ph.B. (*Brown University*) 1906. Chemistry, History. Enrolled candidate for Sc.M.

Harold Oliver Henry *Providence*
B.L. (*Philosophic University of Paris*) 1905. Philosophy, History, French, Italian. Enrolled candidate for A.M.

Helen Elizabeth Hersey *Providence*
Ph.B. (*Brown University*) 1903; A.M. 1905. Education.

David Lacy Hibbs *Williamsburg, Ky.*
A.B. (*William Jewell College*) 1907. English, Chemistry, Comparative Anatomy. Enrolled candidate for A.M.

Leslie Stephen High *Providence*
Philosophy, Political and Social Science, History. Enrolled candidate for A.M.

Amasa Amidon Holden *Woonsocket*
S.B. (*Massachusetts Institute of Technology*) 1899. Education, Social and Political Science.

Mary Barnes Holden *Woonsocket*
A.B. (*Boston University*) 1897. Philosophy. Enrolled candidate for A.M.

Rufus Erasmus Holder *Louisville, Ky.*
A.M. (*Bethel College*) 1896; Th.M. (*Southern Baptist Theological Seminary*) 1901. Philosophy, Biblical Literature, Social Philosophy. Registered candidate for Ph.D. *in absentia.*

Bertha Ethel Hopkins *North Scituate*
Ph.B. (*Brown University*) 1907. Comparative Anatomy, Botany, Physics. Enrolled candidate for A.M.

Ella Louise Howard — *Syracuse, N. Y.*
Ph.B. (*Syracuse*) 1883. English, History. Registered candidate for A.M.

Carl Joseph Hunkins — *Laconia, N. H.*
Education. Enrolled candidate for A.M.

Harry Albert Jager — *Providence*
Education, Latin, English. Enrolled candidate for A.M.

Harvey McLeod Kelley — *Bradford, Mass.*
A.B. (*Brown University*) 1907. Political and Social Science, French, English. Enrolled candidate for A.M.

Frederick George Keyes — *Rochester, N. Y.*
B.S. (*R. I. College*) 1906; Sc.M. (*Brown University*) 1907. Chemistry, Comparative Anatomy. Registered candidate for Ph.D.

George Franklin Krause — *Lebanon, Penn.*
A.B. (*Brown University*) 1906. English, German, Spanish. Registered Candidate for A.M. *in absentia.*

Frank Edwin Lakey — *Providence*
A.B. (*Brown University*) 1894; A.M. 1900. Sociology. Registered candidate for Ph.D.

William Setchell Learned — *Providence*
A.B. (*Brown University*) 1897. History, Social Science, Political Science. Enrolled candidate for A.M.

Rachel Gertrude McAuliffe — *Providence*
A.B. (*Brown University*) 1907. Education, Registered candidate for A.M.

Alice Rhodes Martin — *Warren*
Ph.B. (*Brown University*) 1907. Astronomy, Mathematics. Registered candidate for A.M.

Bertha Corinne Mathieu — *Central Falls*
A.B. (*Brown University*) 1907. English.

Jacob Alexander Mattuck — *Worcester, Mass.*
Ph.B. (*Brown University*) 1904; A.M. 1905. Social Science, Education. Registered candidate for Ph.D.

Richard Hagan Miller — *Providence*
Ph.B. (*Brown University*) 1907. Comparative Anatomy, Chemistry. Enrolled candidate for A.M.

Francis Marion Mitchell — *Wickford*
A.B. (*Shurtleff College*) 1877. History, Philosophy. Registered candidate for A.M.

William Jackson Nelson — *Waco, Tex.*
A.B. (*Baylor*) 1907. Biblical Literature, History, Philosophy. Enrolled candidate for A.M.

Edith Arline Nichols — *Providence*
A.B. (*Brown University*) 1906. History. Registered candidate for A.M.

George Barrows Obear — *Lynn, Mass.*
S.B. (*Massachusetts Institute of Technology*) 1903; Sc.M. (*Brown University*) 1905. Physics, Mathematics. Enrolled candidate for Ph.D.

Henry Robinson Palmer — *Stonington, Vt.*
A.B. (*Brown University*) 1890. History of Art. Registered candidate for A.M.

Helen Elizabeth Peck — *Peace Dale*
A.B. (*Wellesley*) 1904. English, Education, History. Registered candidate for A.M.

Thomas Richard Peede *New Bedford, Mass.*
Ph.B. (*Amity College*) 1885. Philosophy, Comparative Anatomy, Education. Registered candidate for Ph.D.

Katherine Upham Peirce *Providence*
A.B. (*Vassar*) 1889. History. Registered candidate for A.M.

Herbert John Piper *Eden Park*
A.B. (*Bates*) 1890; B.D. 1900. English Literature, Art. Enrolled candidate for A.M.

Harry Wolcott Robbins *Ballston Spa, N. Y.*
Education, Political and Social Science, Astronomy. Enrolled candidate for A.M.

Ethel Louise Robinson *Providence*
Ph.B. (*Brown University*) 1907. Education, English, History. Enrolled candidate for A.M.

Sarah Gridley Ross *Courtland, N. Y.*
A.B. (*Brown University*) 1905. English. Registered candidate for A.M.

William Nisbet Ross *Providence*
A.B. (*Brown University*) 1907. Education, Physics. Enrolled candidate for A.M.

Helen Elizabeth Searle *Westfield, Mass.*
A.B. (*Mount Holyoke*) 1904. Education. Registered candidate for A.M.

Edmund David Searls *Providence*
A.B. (*Wesleyan*) 1896; A.M. 1898. Political and Social Science.

Louise Schutz *Providence*
A.B. (*Brown University*) 1907. English, Philosophy. Enrolled candidate for A.M.

Sarah Ida Shapiro *Providence*
Ph.B. (*Brown University*) 1907. Education. Registered candidate for A.M.

George Herbert Sherwood *New Rochelle, N. Y.*
A.B. (*Brown University*) 1898; A.M. 1899. Comparative Anatomy, Physiology. Registered candidate for Ph.D.

Lester Burrell Shippee *Providence*
A.B. (*Brown University*) 1903; A.M. 1904. History. Registered candidate for Ph.D.

Percy Shires *Scranton, Pa.*
Ph.B. (*Brown University*) 1906. Spanish. Registered candidate for A.M.

Walter Clifton Slade *Providence*
Ph.B. (*Brown University*) 1907. Chemistry, Comparative Anatomy. Enrolled candidate for Sc.M.

David Wilkinson Smith *Manville*
A.B. (*Brown University*) 1907; A.M. 1907. Greek, Latin. Registered candidate for Ph.D.

Eunice Clara Smith *Pawtucket*
A.B. (*Brown University*) 1907. Latin. Registered candidate for A.M.

Henry Pomeroy Stacy *Springfield, Mass.*
Mathematics, Mechanics. Enrolled candidate for A.M.

Raymond Frank Tift *Somerville, Mass.*
French, English, History. Enrolled candidate for A.M.

Roy Towne *Valley Falls*
A.B. (*Brown University*) 1905. Education, Greek. Registered candidate for A.M.

Henry Carroll Tracy *Lowell, Mass.*
A.B. (*Dartmouth*) 1902; A.M. (*Brown University*) 1905. Comparative Anatomy, Chemistry, Physiology. Registered candidate for Ph.D.

Lloyd Peter Upton *Manchester, N. H.*
Ph.B. (*Brown University*) 1906. Comparative Anatomy, Philosophy, Chemistry. Registered candidate for A.M. *in absentia.*

Arthur Washburn *Worcester, Mass.*
A.B. (*Harvard*) 1900; B.D. (*Episcopal Theological Seminary, Cambridge*) 1903. Art. Registered candidate for A.M.

Chester Campbell Waters *Providence*
A.B. (*Brown University*) 1905; A.M. 1906. Social and Political Science, Economics. Enrolled candidate for Ph.D.

Ernest Milton Watson *Cranston*
Ph.B. (*Brown University*) 1907. Comparative Anatomy, Chemistry. Enrolled candidate for A.M.

Ralph Cahoon Whitenack *Wilmington, Del.*
A.B. (*Brown University*) 1906. Social and Political Science, Political Economy. Registered candidate for A.M. *in absentia.*

Lawrence Norman Wight *Gorham, N. H.*
A.B. (*Bates*) 1907. Comparative Anatomy. Enrolled candidate for A.M.

Lilian Arthur Winsor *Providence*
A.B. (*Brown University*) 1907. Education. Registered candidate for A.M.

Walter Edgar Woodbury *Nashua, N. H.*
A.B. (*Brown University*) 1906. Philosophy, Sociology. Enrolled candidate for A.M.

Arthur Lincoln Young *Uxbridge, Mass.*
A.B. (*Brown University*) 1904. Education, Chemistry, Physics. Enrolled candidate for A.M. *in absentia.*

SENIORS: CLASS OF 1908

NAME	RESIDENCE
David Justin Allen	*Stanfordville, N. Y.*
Fred Sawyer Auty	*Providence*
Frederick Eugene Banfield, Jr.	*Newton Centre, Mass.*
Samuel Jacob Beeber	*Worcester, Mass.*
Judson Everett Benjamin	*New York, N. Y.*
William Charles Bitting, Jr.	*St. Louis, Mo.*
Ralph Philip Boas	*Providence*
William Ward Browne	*Providence*
Osmore Wheeler Buddington	*Wilmington, Del.*
Elmer Jay Bunting	*Keene, N. H.*
Robert Taylor Burbank	*Providence*
Walter Henry Burnham	*Providence*
Leslie Edgar Bushnell	*Auburn*
John Gladding Canfield	*Providence*
Francis Wingate Carret	*Roxbury, Mass.*
Carl Hardin Carson	*Providence*
Norman Stanley Case	*Providence*
Howard Millar Chapin	*Providence*
Franklin Irving Chichester	*Poughkeepsie, N. Y.*

NAME	RESIDENCE
Paul Lloyd Chipman	*Wareham, Mass.*
Henry Garfield Clark	*Shannock*
Ronald Blake Clarke	*Providence*
Harry Duffield Clough	*New Bedford, Mass.*
Haven Alton Cobb	*Providence*
Irving Haven Coffin	*Edgartown, Mass.*
Earl Biddle Conklin	*Canton, Pa.*
John Joseph Aloysius Cooney	*Providence*
Carl Leslie Cordery	*Providence*
Alfred Jason Densmore	*Lebanon, N. H.*
Arthur Lewis Denton	*Plainfield, N. J.*
Patrick Edward Dillon	*Valley Falls*
Fred Albert Edgecomb	*Groton, Ct.*
Virgil Ehle	*Pawtucket*
Albert Robinson Evans	*Barbourville, Ky.*
Miner Elliot Fenn	*Landgrove, Vt.*
Benson Ralph Frost	*Rhinebeck, N. Y.*
Walter Mason Gager	*Providence*
Louis John Gillespie	*Manchester, N. H.*
Robert Ripley Gleason	*Lonsdale*
Ira Nathan Goff, Jr.	*Providence*
Christopher Albert Greene	*Peace Dale*
Clarence Hill Griffith	*Utica, N. Y.*
Harry Joseph Putnam Hadley	*Malone, N. Y.*
James Alexander Hall	*Providence*
Clifford Murray Hathaway	*New Bedford, Mass.*
James Ovington Hazard	*Westerly*
Edward Charles Hempel	*Geneva*
Leslie Stephen High	*Providence*
Lucian Winfield Himes	*Phenix*
John Ralph Honiss	*Newark, N. J.*
Frederic Nightingale Howard	*Providence*
Sheldon Jenckes Howe	*Providence*
Clifford Chesley Hubbard	*Providence*
Carl Joseph Hunkins	*Laconia, N. H.*
Clayton Edward Hunt	*Columbia, Ct.*
Homer Bailey Hunt	*North Charlestown, N. H.*
Milton Bicknell Hunt	*Charleston, Me.*
Harry Albert Jager	*Providence*
Louis Cottrell Jennings	*Newport*
Lloyd Wadleigh Josselyn	*Bridgewater, Mass.*
Alfred Hopkins Lake	*Providence*
John Howard Lever	*Providence*

NAME	RESIDENCE
Clinton Coolidge Low	*Lynn, Mass.*
Harold William Lyall	*Lawrence, Mass.*
John Clarence McDonald	*Ludlow, Vt.*
William Lloyd McDonald	*St. Albans, Vt.*
William Edward McGurgan	*Hebronville, Mass.*
John Brown Mackenzie	*Fall River, Mass.*
Hunter Sylvester Marston	*New York, N. Y.*
James Cook Martin	*Brooklyn, N. Y.*
Alfred Joseph Maryott	*Springfield, Mass.*
Frank Fenner Mason	*Pawtucket*
Thomas Miller	*Fall River, Mass.*
Harold Edson Minnerly	*Tarrytown, N. Y.*
Robert Charles Nason	*Medway, Mass.*
Henry Nuttall	*Fall River, Mass.*
Lewis Harvey Nutter	*Pittsfield, N. H.*
John Joseph O'Connor	*Taunton, Mass.*
Alfred John Olsen, Jr.	*Providence*
Roland Cuthbert Ormsbee	*Matteawan, N. Y.*
Sidney Small Paine	*Newton Centre, Mass.*
Ely Eliot Palmer	*Providence*
Harry Thornton Peace	*Saylesville*
Earle Winfield Peckham	*Providence*
Charles Westmacott Perry	*Pawtucket*
Fred Hale Pierce	*Danielson, Ct.*
Robert Sanborn Pinkham	*Wollaston, Mass.*
Charles Sumner Plummer, Jr.	*Newport*
John Donald Pryor	*South Orange, N. J.*
Donald Varnum Richardson	*Providence*
George Francis Alexander Riley	*Fall River, Mass.*
Harry Wolcott Robbins	*Ballston Spa, N. Y.*
Earl Clarendon Ross	*Pawtucket*
Bertram Francis Ryder	*Cotuit, Mass.*
Norman Lewis Sammis	*Huntington, N. Y.*
Benjamin Theodore Schiek	*Pardeeville, Wis.*
Maurice Elijah Schur	*Worcester, Mass.*
Arthur Gray Seabury	*Little Compton*
Wilmarth Young Seymour	*Warren*
Percy Augustus Shaw	*Fall River, Mass.*
Carl Wilfred Shepardson	*Athol, Mass.*
Frank Garret Shinn	*Lakehurst, N. J.*
William Armour Smith	*Lawrence, Mass.*
Henry Pomeroy Stacy	*Springfield, Mass.*
Nathan Sternseher	*Providence*

NAME	RESIDENCE
Harlan True Stetson	*Newton Centre, Mass.*
Herbert Knapp Sturdy, Jr.	*Attleboro Falls, Mass.*
Leslie Earl Swain	*Providence*
George Danforth Taylor	*Stamford, N. Y.*
Albert Clark Thomas	*Wakefield, Mass.*
Raymond Frank Tift	*Somerville, Mass.*
George Alfred Townsend	*Glens Falls, N. Y.*
Leon Ernest Varnum	*New Bedford, Mass.*
Joseph Angier Vernon	*Providence*
Frank Albert Walker	*Providence*
Wade Clarence West	*Glenville, W. Va.*
James George Whalen	*Northampton, Mass.*
Joseph Butler Whittemore	*Providence*
James Wilmot	*Providence*
Sydney Smith Winslow	*Fall River, Mass.*
Peter Augustus Worsley	*Providence*
Grey Huntinford Wyman	*Lawrence, Mass.*
Percy Lawrence Young	*Boston, Mass.*
Howard Seth Young	*Woonsocket*

JUNIORS: CLASS OF 1909

Jarvis Howard Alger	*Westerly*
Thomas Parker Ayer	*Manchester, N. H.*
Herbert Remington Ayler	*Portsmouth*
George Warren Babcock	*Fall River, Mass.*
Harold Pemberton Babcock	*Providence*
Herbert Luther Barrett	*Jackson, Miss.*
Robert Kershaw Bennett	*Killingly, Ct.*
Leon Henry Beytes	*Plymouth, Mass.*
William Bichwit	*Providence*
Irving Whitman Bogle	*Fall River, Mass.*
Clarence William Bosworth	*Georgiaville*
Frederick May Boyce	*Providence*
Charles Lewis Brightman	*Fall River, Mass.*
Harold Parker Brown	*Providence*
Fred Reed Budlong	*Providence*
William Potter Buffum, Jr.	*Newport*
Stuart Russell Bugbee	*North Attleboro, Mass.*
John Wymond Miller Bunker	*Newton Centre, Mass.*
Philip Burbank	*Providence*
Robert Wilbur Burgess	*Morgan Park, Ill.*
Raymond Buss	*Acworth, N. H.*
Walter Hillman Butler	*Rockland, Me.*

NAME	RESIDENCE
Charles Frederick Butterworth	*Pottersville, Mass.*
Hugh Fred Cameron	*Providence*
George Henry Campbell	*Providence*
Amasa Manton Chace	*Newport*
Henry Sharpe Chafee	*Providence*
Robert Foster Chambers	*Providence*
Malcolm Doyle Champlin	*Providence*
Emerson Lawrence Chandler	*New London, Ct.*
Newton Gladding Chase	*Woonsocket*
Joseph Church, Jr.	*Tiverton*
Donald Graham Clark	*Providence*
Richard Alexander Colmetz	*Providence*
William Matthew Connell	*Edgewood*
James Greenan Connolly	*Pawtucket*
William Michael Conroy	*Fall River, Mass.*
Harry Francis Cook	*Westerly*
Albert Moses Cristy	*Providence*
Harold Redwood Curtis	*East Providence*
James Davis Dean	*Waverly, Pa.*
Frank Edward Dennie	*Brockton, Mass.*
James Payson Dixon, Jr.	*New London, N. H.*
William Pendleton Dodge	*Westerly*
Archibald Wallace Dunn	*Auburn, Me.*
Herbert Richardson Ede	*Fairhaven, Mass.*
Harold Bowen Edmundson	*Thornton*
Lawrence Sanford Elliot	*Attleboro, Mass.*
Paul Ellsworth Everett	*Franklin, Mass.*
Edward William Everson	*Providence*
John Addison Foote	*Simpson, Kans.*
Henry Edwin Fowler	*Wickford*
Thomas Harper Goodspeed	*Chicago, Ill.*
Adolph Gorman	*Providence*
Allan Westcott Greene	*Barrington*
Ernest Russell Hager	*Auburn*
Chester Sargent Hardy	*Fitchburg, Mass.*
Albert Harkness	*Providence*
Daniel Joseph Harrigan	*Newburyport, Mass.*
Walter Herman Harris	*Providence*
Charles Edward Havens	*Longmeadow*
George Henry Henderson	*Woonsocket*
Harold Griffith High	*Providence*
Edward James Hollen	*Providence*
Charles Evans Hughes, Jr.	*New York, N. Y.*

NAME	RESIDENCE
George Thomas Huxford	*Edgartown, Mass.*
Will Clarence Ingalls, Jr.	*Arlington, N. J.*
Howard Kempton Jackson	*Woonsocket*
Clarence Richard Johnson	*Rumford*
Bernard Aloysius Keenan	*Pawtucket*
Arthur Joseph Kirley	*Sheldon, Vt.*
Harry Beaston Lake	*Port Norris, N. J.*
Harry Badger Lane	*New London, Ct.*
John Raymond Lapham	*West Medway, Mass.*
Lawrence Lyle Larrabee	*Petersburg, Va.*
Julius Hyman Lasker	*Providence*
Burton Fred Latham	*Oneida, N. Y.*
Ivory Littlefield	*Providence*
Edward Humphrey McCarthy	*Providence*
Louis Augustine McCoy	*Pawtucket*
Omar Roscoe McCoy	*Providence*
Edwin Bloch Mayer	*Chicago, Ill.*
John Wesley Mayhew	*Edgartown, Mass.*
Lewis Hamilton Meader, Jr.	*Providence*
James Matthias Mercer	*Willimantic, Ct.*
William Davis Miller	*Providence*
William Edwin Barbour Mitchell	*Westerly*
William Pleasants Mitchell	*Millville, N. J.*
Edmond Everett Moffett	*Saylesville*
William Robert Nash	*New Britain, Ct.*
Warren Carney Norton	*Portland, Me.*
Chester Linwood Nourse	*Newburyport, Mass.*
Irving Wooster Patterson	*Storrs, Ct.*
Theodore Lochart Paul	*Sherborn, Mass.*
Albert Harkness Poland	*Providence*
Joseph Price	*Providence*
Wendell Phillips Raymond	*Brockton, Mass.*
Lawrence Richmond	*Providence*
Alberti Roberts	*West Coxsackie, N. Y.*
William Crawford Ross	*Portland, Me.*
Allen Oscar Seabury	*Little Compton*
Henry Boyd Selleck	*Providence*
Albert Edward Shaw	*Webster, Mass.*
Henry William Shay	*Fall River, Mass.*
Herbert Montague Sherwood	*Providence*
William Tracy Shields	*Providence*
Bertram Smith	*Hillsboro Bridge, N. H.*
Earl Robert Smith	*Franklinville, N. Y.*

NAME	RESIDENCE
Harold Bertram Smith	*Taunton, Mass.*
Harry Frederick Smith, Jr.	*New York, N. Y.*
Harry Bingham Stearns	*Wilmot, N. H.*
Henry Jennison Blakely Stitt	*Saxton's River, Vt.*
Donald Leroy Stone	*Indianapolis, Ind.*
Guy Forney Strickler	*Lebanon, Pa.*
Harold Greene Sturgis	*Uniontown, Pa.*
John Joseph Sullivan	*Cranston*
Robert James Banigan Sullivan	*Providence*
Harold Anthony Sweetland	*Providence*
John Seymour Sweetland	*Barrington*
George Francis Sykes	*Suffield, Ct.*
Harold Brooks Tanner	*Providence*
Frank Carter Taylor	*Providence*
Selwyn Garfield Tinkham	*New Bedford, Mass.*
Henry Richard Von Bargen	*Brooklyn, N. Y.*
Charles Henry Ward, 2d	*Middletown*
Charles Fletcher Warren	*Plainville, Mass.*
Robert Campbell Weed	*Drownville*
John Hazard Wells	*Kingston*
George Franklin Weston, Jr.	*Providence*
Chauncey Earle Wheeler	*Plainville, Mass.*
Clarence Milton Whipple	*Mapleville*
Robert Holmes Whitmarsh	*Providence*
Frank Allen Wightman	*Warren*
Louis Paul Willemin	*Providence*
Norman Harris Williams	*Moodus, Ct.*
Sydney Wilmot	*Providence*
Harry Draper Winsor	*Providence*

SOPHOMORES: CLASS OF 1910

Daniel Webster Abercrombie, Jr.	*Worcester, Mass.*
Kenneth Field Albee	*Wollaston, Mass.*
James Madison Aldrich	*Springfield, Vt.*
Richard Day Allen	*Pawtucket*
Max Alonzo Almy	*Corning, N. Y.*
William Coggeshall Anthony	*South Portsmouth*
Carl Winslow Atwood	*Waltham, Mass.*
Donald Sturges Babcock	*Providence*
Gaius Humphrey Barrett	*Waterford, Ct.*
Maxwell Barus	*Providence*
James Edward Battey	*Ashland*
William Alfred Blackburn	*Fairhaven, Mass.*

NAME	RESIDENCE
Joseph Eli Bliss	*Providence*
Apley Leonel Brett	*South Braintree, Mass.*
Harold Stephen Bucklin	*Pawtucket*
Francis Henry Buffum, Jr.	*Winchester, N. H.*
Hudson Coe Burr	*Plainfield, N. J.*
Walter Chester Cameron	*Auburn*
Max Howard Carson	*Providence*
Brayton Clarke Case	*Newton Centre, Mass.*
Earle Francis Caton	*Edgewood*
Otis Chadwell	*Lynn, Mass.*
Leonidas Franklin Clark	*Herkimer, N. Y.*
Robert Irving Clarke	*Fall River, Mass.*
Earl Westgate Colby	*West Lebanon, N. H.*
Eliot Loomis Collins	*New York, N. Y.*
Andrew Burroughs Comstock	*Providence*
Morris Ferguson Conant	*Pawtucket*
Willis Garrett Conant	*Dover, N. J.*
Henry Conyers	*Arlington*
Herman Copeland	*Providence*
Allan David Creelman	*Suffield, Ct.*
Joseph Henry Cull	*Providence*
Henry Chester Damon	*Fall River, Mass.*
Arthur Daniel Draper	*Rochdale, Mass.*
William James Dwyer	*Providence*
Jerome Richmond Fales	*Barrington*
Albert Farnsworth	*Lawrence, Mass.*
Ralph Beach Farnum	*Providence*
Albert Potter Farwell	*Providence*
Raymond Edward Fenner	*Providence*
Jerome Philip Fogwell	*Fall River, Mass.*
John Howard Forrist	*Providence*
William Belfield Freeman	*Providence*
Everett Percy Frohock	*Camden, Me.*
Harold Maurice Frost	*Tiverton*
William Edward Gannon	*New York, N. Y.*
Frederick Alberto Gardner	*Tilton, N. H.*
Warren Clifford Goodwin	*New London, N. H.*
Walter Edward Goodwin	*Taunton, Mass.*
John Lawrence Gorman	*Ballston Spa, N. Y.*
Raymond Keyes Gould	*East Greenwich*
Winfield Wardwell Greene	*North Wilbraham, Mass.*
Arthur Mathias Ham	*Winter Hill, Mass.*
John Patrick Hartigan	*Providence*

NAME	RESIDENCE
Walter Brooks Henderson	*Jamaica, West Indies*
John Collins Aloysius Hennessey	*Brooklyn, N. Y.*
Guy Reynolds Hicken	*Newburyport, Mass.*
Albert Wallace Hills	*Haydenville, Mass.*
Norman Edward Holt	*Providence*
Earle Moulton Horton	*Providence*
Elmer Stuart Horton	*Providence*
John Danielson Howard	*Providence*
Paul Balcom Howland	*Providence*
Roland Ellis Hutchins	*Stoneham, Mass.*
Malcolm Royce Jeffris	*Jonesville, Wis.*
Warren Clifford Johnson	*Nashua, N. H.*
Seth Maurice Kalberg	*New Britain, Ct.*
Joseph Berry Keenan	*Pawtucket*
William Kent	*Providence*
Maxwell Krause	*Lebanon, Pa.*
Harold Dane L'Amoureux	*Pawtucket*
William Harkins Lynn	*Providence*
Florence Francis McCarthy	*Somersworth, N. H.*
William Henry McCarthy	*Lawrence, Mass.*
Gough Decatur McDaniels	*Baltimore, Md.*
Robert Emmet McGough	*Providence*
George Henry McGurty	*Somersworth, N. H.*
Harold St. Clair McIntosh	*Providence*
Percy Douglas McPhee	*Newton, Mass.*
Frank Le Forrest Mansur	*Bradford, Mass.*
Edward Holton Mason, Jr.	*Providence*
Keith Mercer	*Providence*
Benjamin Dwight Miller	*Newton Centre, Mass.*
Ernest Mariett Morris	*Fall River, Mass.*
John Henry Morrisey, Jr.	*Bristol*
Alexander Wickliffe Muir	*Newton, N. J.*
Robert Lewis Munson	*South Dartmouth, Mass.*
William Charles Oakes	*Ischua, N. Y.*
Albert Joseph O'Connor	*Pawtucket*
Harry Lees Oldfield	*Saylesville*
Henry Bernard O'Neil	*Keene, N. H.*
Joseph Edwin Oslin	*Providence*
Stephen David Paddock	*Providence*
Ralph Mallory Palmer	*Providence*
George Waller Parker	*Atlantic Highlands, N. J.*
Albert Nathaniel Peterson	*Providence*
Harold Thomas Phinney	*Providence*

NAME	RESIDENCE
Charles Addison Post	*Clinton, Ct.*
Winfield Cary Potter	*Central Falls*
Jeremiah Hooper Prescott	*Providence*
Stephen Donald Pyle, Jr.	*Brooklyn, N. Y.*
Carl Ruehl Raquet	*Newark, N. J.*
Ralph Weeden Reckling	*Narragansett Pier*
Clarence Richards	*Providence*
Thornton Munroe Richards	*West Newton, Mass.*
George Arthur Round	*Norton, Mass.*
Lester Angell Round	*Clayville*
Isaac Sylvester Rowe	*Newton Centre, Mass.*
Almer Curtis Sanborn	*Des Moines, Ia.*
Edward John Shaeffer	*Ballston Spa, N. Y.*
Jeremiah James Shea	*Holyoke, Mass.*
Israel Remington Sheldon	*Pawtuxet*
James Chute Simpson	*Dorchester, Mass.*
James Smalley, Jr.	*Fall River*
Edward Sheldon Spicer	*Providence*
Howard Alden Straffin	*Brockton, Mass.*
Harold Avery Swaffield	*Newfoundland, N. J.*
William Sheldon Sweet	*Providence*
Russell Thomas Symmes	*Stoneham, Mass.*
Howard Alfred Taber	*Providence*
Eddy Warren Tandy	*Gardner, Mass.*
Henry Bangs Thacher	*Brockton, Mass.*
Donald Malcolm Tobin	*Swanton, Vt.*
Fred Louis Trover	*Beaver Falls, Pa.*
Harold McGregor Tukesbury	*Dorchester, Mass.*
Clifton Henry Walcott	*Leominster, Mass.*
Lawrence Sidney Walker	*Providence*
Edward Walter Wall	*Easthampton, Mass.*
Clifton Berkely Ward	*Middletown*
Henry Max Webber	*Hillsboro Bridge, N. H.*
Harold Leslie Wheeler	*Watertown, Mass.*
Harold Parker Whitney	*Ashburnham, Mass.*
Earl Herbert Williams	*Auburn*
Ralph Henry Wilmarth	*Attleboro, Mass.*
Claude Maker Wood	*Crompton*
Alan Jewett Young	*Newton Centre, Mass.*
Hovhannes Zovigian	*Pawtucket*

FRESHMEN: CLASS OF 1911

NAME	RESIDENCE
Leonard Hodgson Adams	*Claremont, N. H.*
Edward Bartlett Allen	*Warwick*
John Albert Anderson	*Providence*
Paul Appleton	*Providence*
James Coutts Archie	*Westerly*
Vernon Edgar Babington	*Cranston*
David Sherman Baker	*Wickford*
Matthias Wisen Baker, Jr.	*Providence*
Harold Oakley Barker	*Stamford, Ct.*
James Beattie	*Coos, N. H.*
Joshua Beliavsky	*Providence*
Edgar Paul Bengert	*Cleveland, O.*
Albert Arnold Bennett, Jr.	*Providence*
Robert Wellington Bingham, Jr.	*East Haddam, Ct.*
Raymond Wilson Bissell	*Salem, Mass.*
Earle Francis Bliss	*Attleboro, Mass.*
Harold Borden Bliss	*Barrington*
Perley Francis Blood	*Hudson, N. H.*
Norman James Bond	*Niantic, Ct.*
Edwin Carpenter Bosworth	*Foxboro, Mass.*
Andrew Lyndon Breckenridge	*Providence*
John Bernard Brennan, Jr.	*Providence*
Homer Temple Brookins	*Bernardville, N. J.*
John Joseph Brown	*Fall River, Mass.*
Wendell Stimpson Brown	*Providence*
Adolph Ferdinand Bruenner	*Brooklyn, N. Y.*
Ernest Hermon Brunquist	*Attleboro, Mass.*
Franklin Abbott Buck	*Mansfield, Mass.*
Henry Morgan Burke	*Providence*
Chester Thomas Calder	*Providence*
Everett Shearman Carpenter	*Cumberland*
George Everett Caswell	*New Bedford, Mass.*
Benjamin Harold Cate	*Providence*
Clifford John Cawley	*Providence*
Herbert Frederick Cawthorne	*Leominster, Mass.*
Linwood Collins Chase	*Plainville, Mass.*
Robert Dexter Chase	*Pawtucket*
John Osborne Chesley	*Providence*
Louis Pierre Paul Choquette	*Central Falls*
Chester Irving Christie	*New York, N. Y.*
Nathaniel Boomer Church, Jr.	*Tiverton*

NAME	RESIDENCE
Arthur Chessman Clark	*Newton Centre, Mass.*
John Clarence Clark	*Little Falls, N. Y.*
Clarence Sawyer Cleasby	*Providence*
Herbert Rice Coffin	*Hopedale, Mass.*
Antonio Colas, Jr.	*Havana, Cuba*
Louis Robinson Collins	*Laconia, N. H.*
Royal James Colman	*Norwood, Mass.*
Herbert Ray Connor	*Alameda, Cal.*
Alfred Elwood Corp	*Providence*
James Lloyd Crawshaw	*Providence*
Lawton Vincent Crocker	*Chester, Vt.*
Philip Chadsey Curtis	*Pawtucket*
Edward Fisher Dalton	*Haddam, Ct.*
Earl Balcom Dane	*Providence*
Arthur Clapp Davenport	*Braintree, Mass.*
George Glass Davitt	*Wilkinsburg, Pa.*
Earl Philip Dawley	*Providence*
Silas Benjamin Dishman, Jr.	*Barbourville, Ky.*
Earl Raymond Donle	*Providence*
Arthur Edward Donnelly	*Providence*
Charles Harold Doty	*Stamford, Ct.*
Frank Willard Doty, Jr.	*Stamford, Ct.*
Edwin Arthur Dow	*Eden Park*
Joseph Ferretti Driscoll	*Ballston Spa, N. Y.*
Frank Otis Drowne	*Pawtucket*
John Edward Dudley, Jr.	*Newton Centre, Mass.*
Herbert Eddy Easton	*Central Falls*
Ledro Eckford Ehle	*Canajoharie, N. Y.*
James Henry Eldredge	*East Greenwich*
John Ervin, Jr.	*Pawtucket*
Laurel Fellman	*New York, N. Y.*
Malcolm Graham Fillmore	*Somerville, Mass.*
Ernest Sherman Fitz	*Saylesville*
Albert Louis Fleckhamer	*Providence*
Byron Mason Fleming	*Lonsdale*
Joseph Edward Fletcher, Jr.	*Bristol*
Clarence La Forest Foilansbee	*Laconia, N. H.*
Herbert Briggs Francis	*Taunton, Mass.*
Michael Henry Gallagher	*Wellesley, Mass.*
Lawrence Gardner	*Portland, Me.*
Robert Nichols Gardner	*Portland, Me.*
Guy Harold Gifford	*Providence*
William Clement Giles	*Springfield, Mass.*

NAME	RESIDENCE
Frederick Richmond Gleason	*Brooklyn, N. Y.*
Edward Jerome Glynn	*Springfield, Mass.*
Darius Goff	*Pawtucket*
Matthew Gormly, Jr.	*Providence*
Allton Greene	*Portland, Me.*
Benjamin Haywood Hagerman	*Kansas City, Mo.*
Augustus Joseph Hampton	*Pawtucket*
Walter Gardiner Harrington	*Providence*
Wallace Elmer Harris	*Providence*
Herman Hartwell Haskins	*Winchester, Mass.*
William Erving Hastie	*Providence*
Wright David Heydon	*Centreville*
Jacob Freeman High	*Bedminster, Pa.*
John Edward Hinckley	*Barnstable, Mass.*
John Sprague Hodgson	*Enfield*
Samuel Morey Holman, Jr.	*Attleboro, Mass.*
Jacob Mark Howarth	*Swansea, Mass.*
Harry Robinson Howe	*Mansfield, Mass.*
Paul Denckla Howe	*Philadelphia, Pa.*
Howard Greenough Hubbard	*Providence*
Shinzo Inomata	*Providence*
Earl Edmund Jackson	*Providence*
Seward Thompson Jarvis	*Somerville, Mass.*
Frederic Marshall Jencks	*West Barrington*
William Henry Jenney	*Meriden, N. H.*
Clare Steele Johnston	*Youngstown, O.*
Gardner Hunter Jones	*Lakeport, N. H.*
Harmon Paul Buffum Jordan	*Holliston, Mass.*
Otis William Jordan	*Windsor, Vt.*
Cedric Freeman Joslin	*Portland, Me.*
John Vincent Keily	*Providence*
Walter Edward Kelley	*Roxbury, Mass.*
Earl Barney Kent	*Attleboro, Mass.*
Arthur Edward Kenyon	*Providence*
Arthur Kiernan	*Providence*
John Baptist Kindelan	*New York, N. Y.*
Charles Manton King	*Mt. Hermon, Mass.*
Albert Franklin Knight, Jr.	*Providence*
Ira Winsor Knight	*Auburn*
Harold Leslie Kohler	*New York, N. Y.*
Samuel May Lederer	*Providence*
Warren Bliss Luther	*Attleboro, Mass.*
William Wallace MacDougald	*Hinckley, Me.*

NAME	RESIDENCE
James Russell McKay	*Youngstown, O.*
John Francis McLaughlin	*Providence*
Edgar Jean Marston	*Port Chester, N. Y.*
Charles Clarence Maxson	*Westerly*
Robert James Yorkston Meckel	*St. Louis, Mo.*
Merritt Manville Meredith	*Atlantic, Ia.*
Edward Lord Merritt	*Clifton Springs, N. Y.*
John McGill Montz	*Charlottesville, Va.*
Frederick Russell Moseley	*Brookline, Mass.*
Courtland Sawin Mudge	*Providence*
Harold Edward Muir	*Newton, N. J.*
Frederick Leo Mulcahy	*Lawrence, Mass.*
George Francis Murnan	*Herkimer, N. Y.*
Robert Cushman Murphy	*Mt. Sinai, N. Y.*
Lewis Alfred Neufeld	*Brooklyn, N. Y.*
Joseph Serpa Neves	*Providence*
William Wass Nichols	*Wollaston, Mass.*
Christopher Aloysius Nolan	*Providence*
Joseph Harold Oates	*Providence*
James Louis O'Hara	*Providence*
James Timothy O'Neil	*Amesbury, Mass.*
Harry Alfred Ormes	*Upton, Mass.*
Arthur Palmer	*Worcester, Mass.*
Walter Bruce Palmer	*Mattapan, Mass.*
Harry Arthur Pantaenius	*Morristown, N. J.*
Samuel Ryder Parks	*Pawtucket*
Walter Howard Partington	*Central Falls*
Beverly Francis Perry	*Whitman, Mass.*
Irving Wilbert Pettengill	*Haverhill, Mass.*
Harry Jerome Phelps	*Ballston Spa, N. Y.*
Leroy Gardiner Pilling	*Providence*
David James Purdie	*Providence*
Thomas Henry Quigley	*Taunton, Mass.*
Joseph Ernest Raia	*Providence*
Walter Gile Randlett	*Newton Centre, Mass.*
Edward Joseph Rankin	*Philadelphia, Pa.*
Cyril Kelly Richards	*Trenton, N. J.*
George Cormier Richardson	*Chicago, Ill.*
Orville Pratt Richardson, Jr.	*Attleboro, Mass.*
Maurice Stanley Ricker	*Bangor, Me.*
Thomas Howard Roalf	*Keene, N. H.*
Roger Sherman Robinson	*Laconia, N. H.*
Harold Walter Rockwood	*Pawtucket*

NAME	RESIDENCE
Harry Edward Roelke	*Frederick, Md.*
Fremont Emerson Roper	*Riverpoint*
Julius Adolph Saake	*Providence*
Abram Nathan Sadofsky	*North Tarrytown, N. Y.*
Gilbert Sanders	*Trinidad, Col.*
John William Seaton	*Utica, N. Y.*
Judah Semonoff	*Providence*
William Henry Shanahan	*Somersworth, N. H.*
Robert Godfrey Shaw	*Providence*
Lewis Alexander Shepherd	*Springfield, Mass.*
Warren Andrew Sherman	*Providence*
Charles Peck Sisson	*Providence*
Russell Eyre Sisson	*Providence*
Schuyler Merritt Skelding	*Stamford, Ct.*
Robert Fulton Skillings	*Portland, Me.*
Charles Russell Slack	*Fall River, Mass.*
Brenton Greene Smith	*New York, N. Y.*
Warren Hutchinson Smith	*Lincoln*
Irving Cushman Snow	*Fall River, Mass.*
Maurice Youngman Snyder	*Pleasantville, N. J.*
Arthur Edgar Staff	*Campello, Mass.*
Arthur Henry Sterling	*Silver Creek, N. Y.*
Woodbury Sweetzer Stowell	*Bristol*
George Christian Stucker	*Providence*
Arthur Sundlun	*Providence*
George Frederick Swanson	*Providence*
Albert Whitman Sweet	*Providence*
Wendell Richardson Swint	*East Boston, Mass.*
Henry Tattersall	*Swansea, Mass.*
Raymond Samuel Taylor	*Waltham, Mass.*
Howard Everett Thompson	*Brattleboro, Vt.*
Warren Van Kirk	*Jackson, Mich.*
Harold Wallace	*Chicago, Ill.*
Morris Jacob Wessel	*Port Norris, N. J.*
Harold Francis Whitmore	*Herkimer, N. Y.*
Harold Alexander Wilcox	*Providence*
Howard David Williams	*Cleveland, O.*
Shirley Attwood Wilson	*Manchester, N. H.*
James Arthur Wilson	*Pawtucket*
John Raymond Winslow	*Barton, Vt.*
William Valentine Winslow	*Fall River, Mass.*
Joseph Timothy Witherow	*Pawtucket*
Allen Arthur Wood	*Providence*

NAME	RESIDENCE
David Allen Woodroe	*Saratoga, N. Y.*
Harold Powers Worthington	*Agawam, Mass.*
Joseph Wright	*So. Manchester, Ct.*
Ellis Laurie Yatman	*Providence*
George Burgess Yerkes	*Plainfield, N. J.*
Edwin Burnham Young	*Dorchester Centre, Mass.*
Foster Verne Young	*Aylesford, N. S.*
Joseph Zarmon	*Paterson, N. J.*

SPECIAL STUDENTS

Zue Sun Bien	*Shanghai, China*
Charles Walter Briggs, Jr.	*Norwich, Ct.*
William Heap Butler	*Phenix*
Henry Dewees Cady	*Warren*
Louis Carmark, Jr.	*Providence*
George Washington Greene Carpenter	*Manton*
Redmond Peter Conley	*Phenix*
Moses Leverock Crossley	*Providence*
Reuben James Davis	*Swansea, Mass.*
John Cassius Davis	*Bristol*
William Washington Dove	*Providence*
James Farrington	*Providence*
Charles Miller Franklin	*Pawtucket*
Ernest Fuller	*Providence*
Everett Arnold Greene	*Newton Centre, Mass.*
Benjamin Louis Antoine Hénin	*Newport*
Edwin James Hernan	*West Medford, Mass.*
George Rogers Hill	*Brockton, Mass.*
Donald Jackson	*Providence*
Frederick William Jones	*Providence*
George Holmes Kelley	*Providence*
Edmond Irving La Beaume	*St. Louis, Mo.*
John Terence Campbell McGuire	*Fall River, Mass.*
Donald McLean	*Bethlehem, Pa.*
Everett Wilbur Manter.	*Taunton, Mass.*
John Andrew Mitchell	*Harrisville*
William Dexter Morrill	*Lynn, Mass.*
William Emerson Muir	*Morristown, N. J.*
Silas Trip Nye	*Natick*
Adrien Edward Regnier	*Dorchester, Mass.*
Maurice Robinson	*Providence*
Robert Selleck Schoonmaker	*Brighton, Mass.*

NAME	RESIDENCE
Victor Bayard Seidler	*Newark, N. J.*
Leon Semonoff	*Providence*
Herbert Dunlop Tanner	*Providence*
George Augustus Wall	*Providence*
Herbert Alfred Weikert	*Hauppauge, N. Y.*
Harry Ruby Westcott	*Providence*
William Lincoln Wright, Jr.	*Providence*
Martin Harry Yorganjian	*Providence*
Ibrahim Farage Zainée	*Providence*

THE WOMEN'S COLLEGE
IN BROWN UNIVERSITY

* * *

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Professor of Moral and Intellectual Philosophy

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Assistant Professor of Classical Philology

EMMA BRADFORD STANTON, A.M., Registrar of the Women's College

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Newport-Rogers Professor of Chemistry

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Professor of the History of Art and Director of the Museum of Fine Arts

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Professor of Pure Mathematics

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COURTNEY LANGDON, A.B.
Professor of the Romance Languages and Literatures

WILFRED HAROLD MUNRO, A.M.
Professor of European History

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Professor of Social and Political Science

EDMUND BURKE DELABARRE, Ph.D.
Professor of Psychology

JAMES IRVING MANATT, Ph.D., LL.D.
Professor of Greek Literature and History

† On leave of absence during the academic year 1907-8.

WALTER COCHRANE BRONSON, A.M., LITT.D.
Professor of English Literature

WALTER GOODNOW EVERETT, PH.D.
Professor of Philosophy and Natural Theology

ASA CLINTON CROWELL, PH.D.
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JAMES QUAYLE DEALEY, PH.D.
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ALBERT DAVIS MEAD, PH.D.
Professor of Comparative Anatomy

ALBERT BUSHNELL JOHNSON, A.M.
Associate Professor of the Romance Languages

ALEXANDER MEIKLEJOHN, PH.D.
Professor of Logic and Metaphysics

JOHN FRANCIS GREENE, A.M.
Assistant Professor of Roman Literature and History

FREDERICK SLOCUM, PH.D.
Assistant Professor of Astronomy

WILLIAM MACDONALD, PH.D., LL.D.
George L. Littlefield Professor of American History

JOHN EMERY BUCHER, PH.D.
Associate Professor of Organic Chemistry

HENRY THATCHER FOWLER, PH.D.
Professor of Biblical Literature and History

LINDSAY TODD DAMON, A.B.
Professor of Rhetoric

GEORGE WYLLYS BENEDICT, PH.D.
Associate Professor of English

THOMAS CROSBY, A.M.
Assistant Professor of English and Public Speaking

JOHANNES BENONI EDUARD JONAS, PH.D.
Assistant Professor of the Germanic Languages and Literatures

HENRY BARRETT HUNTINGTON, A.B.
Assistant Professor of English

ALBERT SWIFT MORSE, A.M.
Assistant Professor of the Romance Languages

JAMES FRANKLIN COLLINS, PH.B.
Assistant Professor of Botany and Curator of the Herbarium

CAMILLO VON KLENZE, PH.D.
Professor of the Germanic Languages and Literatures

WILLIAM KIRK, PH.D.
Assistant Professor of Political Economy

ROLAND GEORGE DWIGHT RICHARDSON, PH.D.
Assistant Professor of Pure Mathematics

HOWARD BRISTOL GROSE, JR., PH.B.
Instructor in English

MAURICE LOUIS DOLT, SC.M.
Instructor in Chemistry

ALICE WILSON WILCOX, A.B.
Instructor in Physiology and Household Economics in the Women's College

WILLIAM THOMPSON HASTINGS, A.M.
Instructor in English

ROBERT McBURNEY MITCHELL, A.B.
Instructor in German

ROBERT BRADFORD JONES, A.B.
Assistant in English

STANLEY BATES HARKNESS, A.B.
Assistant in English

JEANNIE OLIVER ARNOLD, M.D.
Medical Examiner

ELLA LOUISE HOWARD, PH.B.
Head of the Slater Memorial Homestead

COMMITTEE ON THE CURRICULUM

Professors POLAND, DAVIS, GARDNER, LANGDON, BRONSON, EVERETT, ALLINSON, MEAD, *and* MACDONALD, *Dean* KING.

EXECUTIVE COMMITTEE

President FAUNCE, *Dean* KING, ROBERT HALE IVES GODDARD, *Rev.* HENRY MELVILLE KING, STEPHEN OLNEY METCALF.

ADVISORY COUNCIL

Miss Sarah E. Doyle, *Miss* Amelia S. Knight, *Mrs.* Gustav Radeke, *Mrs.* Carl Barus, *Mrs.* Francis G. Allinson, *Miss* Charlotte L. Tillinghast, *Mrs.* Leonard W. Williams.

COURSES OF INSTRUCTION

OFFERED IN 1907–8

*COURSES designated by a † are given at the University; women are admitted to them, but only on the recommendation of the Dean of the Women's College. Women may also be admitted to other University courses not announced here, with the special permission of the department and with the consent of the Dean of the Women's College. In courses designated by a * a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary.*

I. ART

4, 5. *Modern Art*

First term, the seventeenth and eighteenth centuries. Second term, the nineteenth century. Text-book, lectures, special assigned topics, lantern views. *Professor* POLAND.

Three hours. First and Second Terms. Elective for Juniors and Seniors who have credit for 3. *Tu., Wed., Sat., at 9.25.*

6. *Theory and Criticism of the Fine Arts*

A study of the more important facts and laws of artistic production. Text-book, special assigned topics, illustrated lectures. *Professor* POLAND.

Three hours. Third Term. Elective for students who have credit for any course in Art. *Tu., Wed., Sat., at 9.25.*

10. *Freehand Drawing*

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design. *Tu., or Th., or Fri., at 2.20.*

11. *Practical Work in Art*

Six hours of drawing or other practical work. To illustrate the principles of delineation, color, and chiaroscuro, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

Three hours. Through the year. Elective for students who have credit for 10, and who have taken 1, 2, 3. Given at the Rhode Island School of Design. *Tu., Th., Fri., at 2.20.*

II. ASTRONOMY

1, 2, 3. *General Course*

Fundamental conceptions of the science; methods of professional study; present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy;* lectures and abstracts upon assigned topics. Designed either for purposes of general culture or as a preparation for technical work. *Professor* UPTON.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. *Wed., Fri., Sat., at 11.25.*

III. BIBLICAL LITERATURE AND HISTORY

14, 19, 20. *Later Jewish and Early Christian History and Literature*

First term, the Maccabean and Roman ages of Jewish history and literature. Second term, the four Gospels and the life of Christ. Third term, the Acts, Epistles, Apocalypse, and the history of the Apostolic age. Includes a large part of the Jewish writings from the second century B.C. to the fall of Jerusalem, and the entire New Testament history and literature, studied in its Jewish setting. In connection with 13, 17, 18, gives a comprehensive view of Biblical history and literature. The books are read in the best English translations; no knowledge of the original languages is required. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected independently. *Tu., Fri., Sat., at 10.25.*

15.† * *Biblical Seminary*

Subject for 1907–8: Critical investigation of the sources for the life of Christ. *Professor* FOWLER.

Three hours. Through the year. Elective for approved Juniors and Seniors.

IV. BOTANY‡

1. *Introductory Course*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of plants and animals, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Botany 1 and Comparative Anatomy 22 are identical. *Professor* COLLINS.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Tu., Wed., Sat., 9.20 to 11.20.*

2.†* *Morphology and Physiology*

Minute structure and special functions of plants, plant cells, and tissues; embryology; glycerin and paraffin technic, etc. The work of the third term is arranged to meet the more special needs of students intending to take up either medicine or forestry. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6. *Professor* COLLINS.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1. *Mon., Wed., Fri., at 12.20.*

6.†* *Investigation*

The character of the problems varies, and the course may therefore be taken two or more years in succession. Students electing this course must, so far as possible, definitely arrange the work and the time schedule with the instructor before June 1 of the preceding academic year. Special work upon almost any phase of botany may be chosen if approved by the instructor. *Professor* COLLINS.

One to three hours. Through the year. Two to six hours of attendance for qualified Juniors and Seniors.

‡ Students intending to teach or to apply for positions in the Government or State experiment station service are advised to supplement courses 1, 2 and 3, 4, 5 with advanced or special work in course 6.

V. CHEMISTRY

1, 2, 3. *Descriptive Chemistry*

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; individual laboratory work. *Professor* BUCHER *and Mr.* DOLT.

Three hours. Through the year. Elective for Undergraduates. *Mon., Tu., Th., at 11.20.* Laboratory hours to be arranged with the instructor.

4, 5.† *Qualitative Analysis*

First term, properties of the metallic elements; their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry. Second term, the principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. First and Second Terms. Elective for Juniors who have credit for 1, 2, 3. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

6.† *Quantitative Analysis*

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. Third Term. Elective for Juniors who have credit for 4, 5. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

VII. COMPARATIVE ANATOMY

2.† *Anatomy*

Includes the study of each organ from its primitive form in the lowest animals to its most complex form in the higher animals and in man. Aims to give a thorough knowledge of the structure and meaning of each organ of the animal body. Designed for students of biology and of medicine. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor* WALTER.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors who have credit for 22.

3.† *Bacteriology*

The methods of studying bacteria; the preparation of culture media; isolation, systematic study, and determination of unknown species; qualitative and quantitative biological examination of water, milk, air, and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; special work on pathogenic forms. *Professor* GORHAM.

Three hours. Six hours of attendance. Third Term. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Th., at 10.20.*

4.† *General Histology*

The technic of preparing animal tissues for microscopical examination. The structure of the fundamental tissues. Special histology of the sense organs. *Professor* MEAD.

Three hours. Six hours of attendance. First Term. Elective for Juniors and Seniors who have credit for 22, and for Sophomores who have credit for 22 and who are not taking any other course in the department.

5.† *Special Histology*

The specific microscopical structure of the organs of the body and of the blood. The relation of structure to normal physiological activity and the relation of certain diseases to changes in cellular structure. *Dr.* FULTON.

Three hours. Six hours of attendance. Second Term. Elective for Juniors and Seniors who have credit for 4, and for Sophomores who have credit for 4 and who are not taking any other course in the department.

7.† *Chemical Physiology*

The chemistry of the proteids, carbohydrates, and fats; of salivary, gastric, and pancreatic digestion; of the blood, bile, and urine; the analysis of milk and of water; toxicology. *Dr.* MITCHELL.

Three hours. Six hours of attendance. First and Second Terms. Must be preceded by Chemistry 2. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

8.† *Physical Physiology*

The physiology of muscle and nerve; the physics and physiology of

the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses. *Dr.* MITCHELL.

Three hours. Six hours of attendance. Third Term. Must be preceded by 7. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

10.† *Comparative Embryology*

Laboratory work. Principles of embryological development and of heredity, illustrated by the fertilization and cleavage of the egg, metamorphosis, and organ formation. Special attention given to the origin and development of the human body. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 22.

16.† *Evolution*

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Lectures and assigned reading. *Professor* MEAD.

Three hours. Third Term. Elective for Juniors and Seniors.

18.† *Ornithology*

A study of birds regarded as a group of living animals in relation to their environment. Lectures and field identification of wild birds during their spring migration. *Professor* WALTER.

One hour. Two hours of attendance. Third Term. Elective for Undergraduates.

20. *Household Economics*

The chemistry of foods and their physiological and economic value, with a brief study of dietaries; the principles of general physiology and their application to personal hygiene; sanitation and domestic hygiene and a study of practical plans for household management; inspection of municipal hygiene. *Miss* WILCOX.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon. 10.20 to 12.20, Th. 11.20 to 1.20, Fri. 2.20 to 4.20.*

22. *General Biology*

Designed as an introduction to the biological sciences and as a general culture course. First term, a study of the structure and functions of the different organs of a typical animal, *e.g.* the cat, with comparisons with human anatomy. Second and third terms, a study of the com-

pound microscope and practice in dissection; a series of typical forms of animal life from the unicellular organisms up to the fern and the frog; general lectures on important biological theories, including evolution, variation, natural selection, geographical distribution, mutation, etc. After the first term Comparative Anatomy 22 and Botany 1 are identical and the classes are combined. *Miss* Wilcox.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Tu., Wed., Sat., 9.20 to 11.20.*

VIII. ECONOMICS‡

1. *Economics, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* Kirk.

Three hours. Third Term. Sophomore, Junior, or Senior year. Must be preceded by Political Science 1 and Social Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others. *Tu., Wed., Sat., at 9.25.*

6. *The Labor Movement*

History and analysis of the trade-union movement; growth of collective bargaining; labor problems in the United States. *Professor* Kirk.

Three hours. First Term. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.25.*

7. *Socialism*

A brief review of the historically important socialistic schemes; mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements. *Professor* Kirk.

Three hours. Second Term. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.25.*

8. *Industrial Corporations*

Development of the corporate form of business organization; its effects; the problems to which it gives rise. Special emphasis on the recent movements toward combination, and toward state control of corporations, particularly quasi-public corporations. *Professor* Kirk.

‡ The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

Three hours. Third Term. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.25.*

3.† *Money and Banking*

Principles of money and banking; recent monetary and banking history, particularly of the United States; monetary and banking systems of leading industrial nations; present monetary and banking problems. *Professor* GARDNER.

Three hours. First and Second Terms. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

5.† *History and Present Tendencies of Economics*

Early economic theories: a critical examination of the theories of the early schools of economists, especially the physiocrats and the early English school, with particular attention to the relation between economic thought and economic life and practice. Recent economic theories: a study of the tendencies of the historical school, the Austrian school, and recent English and American writers. The growth of the principle of monopoly; its influence on the production and distribution of wealth and on the economic well-being of society. *Professors* GARDNER *and* KIRK.

Three hours. One session of an hour and a half weekly. Through the year. Elective for Seniors who have credit for 2.

10, 11, 12.† *Industrial History*

First term, the chief stages in the development of the industrial life of England, with special emphasis on the origin and development of the existing form of industrial organization. Second term, the more important aspects of the industrial development of the colonies and the United States to 1860. Third term, the growth, organization, and geographical distribution of the main branches of industry since 1860; the relation of the industrial life of the United States to that of the world at large. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Tu., Th., Sat., at 12.20.*

20, 21, 22.† *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods. *Professors* GARDNER *and* KIRK.

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors and Seniors. Each term may be elected independently.

IX. ENGLISH ‡

1. *Rhetoric and Composition*

Lectures and recitations upon the fundamental laws of style, with special emphasis upon usage; prescribed reading and themes. Designed to give the student a clear and correct style and some critical standards. *Messrs.* HASTINGS, GROSE, JONES, *and* HARKNESS.

Three hours. Through the year. Required of all Freshmen. *Mon., Tu., Th., at 2.25.*

3.* *English Composition, advanced course*

Frequent practice in composition and criticism. Intended to develop ease of style and clarity and vigor of thought. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores who have attained the grade of C in 1. With the consent of the instructor the course may be repeated. *Wed., Fri., Sat., at 11.25.*

9.† *Old English*

Essentials of Anglo-Saxon grammar; prose selections; Béowulf. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 3.20.*

10.† *Chaucer*

Careful reading of most of Chaucer's works; study of Middle English grammar, with some attention to the development of Modern English. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 4.20.*

11. *English Literature from the Beginning to the Present Time*

An outline course in the history of English literature, with reading and study of the greater writers. *Professor* BENEDICT.

Three hours. Through the year. Elective for Sophomores. *Mon., Wed., Th., at 10.25.*

‡ Credit for English 1 is a prerequisite for admission to all other courses in English. The requirement in English Literature for the degree of Bachelor of Arts may be satisfied by taking any one of the courses from 10 to 23 inclusive.

15. *Shakspere*

Shakspere as dramatist and poet; reading of all the plays. *Professor* Crosby.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

16. *English Literature exclusive of the Drama from 1600 to 1660*

The decline of the Elizabethan spirit; Puritanism and Anglicanism in literature; the "metaphysical" and mystical poets; the cavalier lyrists; all the English poems and some of the prose works of Milton. *Professor* Bronson.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. *Mon., Wed., Fri., at 12.25.*

17. *English Literature from 1660 to 1798*

The Restoration drama; the classical school; development of the essay and the novel; the beginnings of romanticism. *Professor* Huntington.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. *Tu., Fri., Sat., at 10.25.*

20. *English Literature from 1832 to 1892*

The Victorian period; modifications of romanticism in prose and poetry; realism; influence of science and democracy; tendencies at the end of the century. *Professor* Damon.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sat., at 12.25.*

23.† *Seminary in English Literature*

Subject for 1907–8: Studies in medieval romance and allegory. *Professor* Benedict.

Three hours. Two hours of attendance. Through the year. Elective for Graduates, and for a limited number of Seniors who have attained the grade of C in two of the courses from 9 to 22 inclusive.

X. GEOLOGY

3.† *General Geology*

A discussion of the origin, weathering, and metamorphism of rocks;

of other agencies that have affected the formation and development of the earth and its crust; of certain land-forms and the stages of their development; a review of earth changes, with special reference to the development of the North American continent; the types of life characteristic of the different periods, and the principles of organic evolution they illustrate. Lectures, illustrated by models and lantern views. One-third of the first term will be devoted to laboratory work. Two field trips will be taken in the first term and three in the third term. *Professor* BROWN.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.20.*

12.† *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, and ocean currents; of the geographical distribution of food-stuffs and the raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Economics 13; see page 91. *Professors* BROWN *and* KIRK.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

13.† *Physiographic Seminary*

Discussions and reports on the more advanced problems of Physiography. *Professor* BROWN.

Three hours. One hour of attendance. Through the year; or, by special arrangement with the instructor, the course may be taken for a shorter period. Elective for Undergraduates who have passed the first term's work in course 12, and for others who have had sufficient preliminary training in Physiography.

XI. GERMANIC LANGUAGES AND LITERATURES

1. *Introductory Course*

Reading, grammar, composition, conversation, dictation, sight reading. *Mr.* MITCHELL.

Three hours. Through the year. Required of all students who did not present German for admission. *Mon., Wed., Fri., at 12.25.*

2. *Intermediate Course*

Reading of modern German stories (Batt and Allen's *German Stories*, volumes 1 and 2), lyrics (von Klenze or Hatfield), and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Professor* Jonas.

Three hours. Through the year. Required of all Freshmen who presented elementary German for admission. Not elective for students who have taken German in college. *Mon., Wed., Fri., at 12.25.*

3, 4, 5. *Reading Course*

Reading of modern German stories (Batt and Allen's *German Stories*, volume 2), lyrics (von Klenze or Hatfield), and two dramas illustrating respectively the classical and the modern period (Schiller's *Maria Stuart* and Hebbel's *Agnes Bernauer*). Review of grammar; composition; conversation based upon the texts read. *Professors* Crowell *and* Jonas.

Three hours. Through the year. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.25.*

7. *Advanced Course in Standard Authors, Classical and Modern*

One drama of Goethe's, Grillparzer's *Hero und Leander*, Hebbel's *Herodes und Mariamne*, Keller's *Romeo und Julie auf dem Dorfe*, Sudermann's *Frau Sorge*. Talks in German on the history of German literature; oral and written reports in German. *Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 2, and for students who presented advanced German for admission. *Mon., Wed., Fri., at 12.25.*

17.† *Germanic Mythology*

Primitive Germanic religion, customs, and ideas, in their relations to German literature. Discussions based on E. Mogk's *Germanische Mythologie*. *Professor* Crowell.

One hour. Through the year. Elective for Juniors and Seniors. *Tu. at 3.20.*

32.† *Lessing and Schiller*

A study of the life and representative works of each author and the problems they present. *Professor* Crowell.

Three hours. Through the year. Elective for students who have credit for 5 or 7. *Tu., Wed., Sat., at 9.20.*

10. *Goethe's Faust: Parts* 1 *and* 2

With some notice of recent dramas of kindred interest. *Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5 or 7. *Mon., Wed., Fri., at 12.25.*

33, 34, 35.† *Goethe: A Study of His Life and Works*

Lectures in German; reports on assigned topics; extensive reading. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, or 16. *Tu., Th., Sat., at 12.20.*

36.† *Seminary in German Literature*

Aims to give training in modern methods of investigation and criticism. To be carried on in German. Subject for 1907–8: Problems affecting the sources, the evolution, and the technique of the short story of the nineteenth century. *Professor* VON KLENZE.

Three hours. One session weekly. Through the year. Elective for approved students.

XII. GREEK LITERATURE AND HISTORY‡

A, B, C. *Elementary Course*

Designed to cover as much as possible of the entrance requirements in Greek, and thus to enable a student to take 1, 2, and 3 in the following year if she completes by private study before the opening of the first term the entire requirement in the *Anabasis,* and before the opening of the third term the entire requirement in Homer. *Professor* ALLINSON.

Three hours. Through the year. Elective for students who did not present elementary and advanced Greek for admission. *Mon., Tu., Th., at 11.25.*

1. *Plato*

Plato's *Apology* and *Crito,* with select orations of Lysias for sight reading. *Professor* ALLINSON.

Three hours. First Term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *Mon., Tu., Th., at 11.25.*

‡ Courses 1, 2, 3 are a prerequisite for the more advanced courses in this department.

2. *Homer*

The *Odyssey,* four books; rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. *Professor* MANATT.

Three hours. Second Term. Elective for students who have credit for 1. *Mon., Tu., Th., at 11.25.*

3. *Sophocles and Herodotus*

The *Antigone* of Sophocles; selections for sight reading from Herodotus. *Professor* ALLINSON.

Three hours. Third Term. Elective for students who have credit for 1 and 2. *Mon., Tu., Th., at 11.25.*

5. *Greek Lyric Poets*

The chief remains of Greek lyric poetry from Alkman to Timotheos (not including Pindar). *Professor* MANATT.

Three hours. First Term. Elective for Sophomores. *Wed., Fri., Sat., at 11.25.*

4. *Lucian*

Selected writings. *Professor* ALLINSON.

Three hours. Second Term. Elective for Sophomores. *Wed., Fri., Sat., at 11.25.*

6. *Dramatic Poets*

Lectures on the Greek drama. The *Prometheus* of Aeschylus; the *Oedipus Tyrannus* of Sophocles. *Professor* ALLINSON.

Three hours. Third Term. Elective for Sophomores. *Wed., Fri., Sat., at 11.25.*

7. *Plato and Aeschylus*

Republic, book X; selections from books I-IX; *Agamemnon. Professor* ALLINSON.

Three hours. First Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

11. *Herodotus*

History of the Persian wars. *Professor* MANATT.

Three hours. Second Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

12. *Thucydides*

The Sicilian expedition. *Professor* MANATT.

Three hours. Third Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

36. *Introduction to Greek Archaeology*

Outline of the remains of the earliest Greek civilization; an introductory study of Greek vases, coins, small bronzes, and terra-cotta figurines. Intended to give a general survey of these sources for Greek history and life. Illustrated lectures; collateral reading. *Professor* KING.

Three hours. Third Term. Elective for students who have completed one course in Latin or Greek. *Mon., Th., Fri., at 9.25.*

XIII. HISTORY ‡

1. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time of the barbarian invasions to 1789. A narrative text-book supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. *Professor* MACDONALD.

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in either the Sophomore or the Junior year. *Mon., Tu., Th., at 11.25.*

8, 9, 10. *English Constitutional and Political History to 1689*

Formation of the English constitution; establishment and growth of the church; relations with Scotland and Ireland; the Reformation; the Puritan Revolution. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Mon., Tu., Th., at 11.25.*

22, 23, 24.† *Seminary in American History*

Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. For 1907–8 the subjects are: First term, The Second Continental Congress. Second term, The foreign relations of the United States under Washington and Adams. Third term, Topics in the social and economic history of the United States, 1815–45. *Professor* MACDONALD.

Three hours. One hour of attendance. Through the year. Elective for Graduates and approved Seniors. The course presupposes an acquaintance with 27,

‡ The elective courses in History are regularly open only to those who have credit for 1; but, by special permission of the instructor, elective courses may be taken by Juniors who are at the same time taking 1.

28, 29 or 19, 20, 21, but by special permission it may be taken by those who are taking 27, 28, 29 or 19, 20, 21. Each term may, by the consent of the instructor, be elected independently.

27, 28, 29. *American History*

A general course, covering the whole period from the beginnings of English colonization to the end of the Civil War. Lectures, supplemented by assigned reading, study of the texts of representative documents, and special reports. Intended as an introduction to the advanced courses in American history, and for those students who wish only a general survey of the subject or who expect to teach history. *Professor* MacDonald.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.25.*

XIV. INDO-EUROPEAN PHILOLOGY

1. *General Introduction to the Study of Language*

Outline of the history of language; the Indo-European family. Adapted for students of ancient or modern languages. *Professor* Allinson.

Three hours. Third Term. Elective for Freshmen and Sophomores. *Tu., Wed., Sat., at 9.25.*

XV. MATHEMATICS‡

3. *Algebra*

Professors Manning *and* Slocum.

Four hours. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *1st div. Mon., Tu., Th., Fri., at 11.25; 2d div. Tu., Th., Fri., Sat., at 10.25.*

1. *Geometry, Solid and Spherical*

Professors Manning *and* Slocum.

Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission.

2. *Trigonometry*

Professors Manning *and* Slocum.

‡ The Undergraduate courses 1–11 should be taken in the order in which they are printed.

Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission.

4. *Analytic Geometry*

Professor RICHARDSON.

Three hours. First and Second Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.25.*

5. *Differential Calculus*

Professor RICHARDSON.

Three hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 4. *Tu., Fri., Sat., at 10.25.*

6.† *Integral Calculus*

Professor SLOCUM.

Three hours. First Term. Elective for students who have credit for 5. *Tu., Th., Sat., at 12.20.*

7.† *Applications of the Differential Calculus*

Professor SLOCUM.

Three hours. Second Term. Elective for students who have credit for 5 and 6. *Tu., Th., Sat., at 12.20.*

8.† *Applications of the Integral Calculus*

Professor SLOCUM.

Three hours. Third Term. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

9, 10, 11.† *Differential Equations*

Professor RICHARDSON.

Three hours. Through the year. Elective for students who have credit for 6 or 21. First Term required of candidates for the degree of Bachelor of Science in Electrical Engineering. *Tu., Th., Sat., at 12.20.*

14.† *Solid Analytic Geometry*

Professor MANNING.

Three hours. Third Term. Elective for students who have credit for 4 or 19.

XVIII. PHILOSOPHY

1. *Logic*

Aims, methods, and limitations of human thinking; a preparation for work in the sciences and in philosophy. First term, general introduction and formal logic. Second term, principles and methods of the natural sciences. Third term, relations of science to philosophy; philosophical interpretation and criticism of the results of science. *Professor* MEIKLEJOHN.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Wed., Sat., at 9.25.*

6, 7, 8. *History of Philosophy*

The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical but synthetic and constructive as well. First term, Greek philosophy. Second term, medieval and early modern philosophy. Third term, recent and contemporary philosophy. *Professor* EVERETT.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Tu., Th., at 11.25*

11. *Practical Ethics*

The application of ethical theory to the life of the individual, the family, and the state. Discussion of current problems, personal, industrial, and social, from the ethical standpoint. *President* FAUNCE.

Three hours. Third Term. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 10.25.*

EDUCATION‡

1. *History of Education*

Education among the early culture peoples as forming and perpetuating their civilization; the development of education in Greece and Rome as parallel to the development of thought and learning; early

‡ Courses 1, 2, and 3 treat education in its relation to the individual and to the social and political whole; interest in them is therefore not limited to those who intend to teach. At the same time they form an introduction to the more advanced courses in Education. Those who intend to teach are advised to elect these courses during the Junior year.

Courses 1–6 cover the usual requirements for certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1–6 and hold a college degree. Due credit is also given for separate courses.

Christian education; the renaissance and humanism; the rise of realism in thought and education. The history of education considered from the point of view of the history of civilization. *Professor* JACOBS.

Three hours. First Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

2. Critical Study of Modern Education

The beginnings of modern education; the naturalistic movement—Rousseau; the psychological movement—Pestalozzi, Froebel, Herbart; the scientific movement—Spencer; recent sociological tendencies; current experiments; problems which an adequate theory of education must solve. *Professor* JACOBS.

Three hours. Second Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

3. Fundamental Principles of Education

The meaning and aim of education; the function of education as a social institution; the sequence and coördination of studies; the principles of instruction; apperception; the steps in method; the use of the type in instruction; the training of the will; the principles of moral education. *Professor* JACOBS.

Three hours. Third Term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

4. Psychology of Education

Theory and process of mental development, with special emphasis upon the period of adolescence; psychology of method, and of the various studies and disciplines; ways in which student and teacher may utilize a knowledge of the more fundamental activities of the mind. *Professor* JACOBS.

Three hours. First Term. Elective for Seniors who have credit for 1, 2, or 3, or who are taking 1. *Mon., Th., Fri., at 9.25.*

5. Hygiene of Education

A study of bodily growth and development; special emphasis upon the period of adolescence; play and fatigue; physical culture and athletics; arrested growth; the conditions and surroundings which favor or retard normal development; the hygiene of mind; school hygiene. *Professor* JACOBS.

Three hours. Second Term. Elective for Seniors who have credit for 1, 2, or 3, or who are taking 2. *Mon., Th., Fri., at 9.25.*

6. *Practical Introduction to Teaching*

The method of the recitation; management and discipline of classes; observation of good teaching; practical applications of method. *Professor* JACOBS.

Three hours. Third Term. Elective for Seniors who have taken or are taking other courses in Education. *Mon., Th., Fri., at 9.25.*

XIX. PHYSICS

1, 2, 3. *Elementary Physics*‡

First term, kinematics and dynamics. Second term, molecular physics. Third term, electricity. Lectures, illustrated by experiments and the lantern; weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics. *Professor* BARUS.

Three hours. Through the year. Elective for Undergraduates who have credit for Mathematics 1, 2, 3. *Wed., Fri., Sat., at 11.25.*

4, 5, 6.† *Elementary Physics, continued*‡

First term, optics. Second term, acoustics; polarization of light. Third term, heat. Methods as in 1, 2, 3. *Professor* BARUS.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.20.*

14, 15, 16.† *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors* BARUS, PALMER, *and* WATSON.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 7.

17, 18, 19.† *Applied Harmonic Analysis*§

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions, and Lamé functions. *Professor* BARUS.

Three hours. Through the year. Elective for Seniors who have credit for 1, 2, 3 and Mathematics 7, 9.

‡ Graduates attending courses 1, 2, 3 ; 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniell's *Principles of General Physics.*

§ Of the two courses 17, 18, 19 and 20, 21, 22, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

20, 21, 22.† *Physics, advanced course*§

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electromagnetic theory of light, thermal analytics, and thermodynamics. Completed in two years. *Professor* BARUS.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 5, 6, 7.

XX. ROMAN LITERATURE AND HISTORY

1. *Livy*

Designed to enable the student to acquire facility in reading Latin, and to instruct him in the use of the Latin texts as a means of gaining a knowledge of Roman history; grammatical study and literary criticism also receive attention. *Professor* KING.

Three hours. First Term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

2. *Cicero's Letters*

Aims and methods as in 1. *Professor* HARKNESS.

Three hours. Second Term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

3. *Tacitus's Germania and Agricola.*

Aims and methods as in 1. *Professor* HARKNESS.

Three hours. Third Term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

4. *Horace's Odes and Epodes*

Critical study of the poems, supplemented by rapid reading with a view to comprehending the spirit of the author; the literary side of the study is made prominent. Lectures; literary topics assigned to the class for special study. *Professor* GREENE.

Three hours. First Term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

34. *Vergil*

Bucolics, with special reference to literary sources and influence,

§ Of the two courses 17, 18, 19 and 20, 21, 22, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

Georgics, and *Aeneid,* with special reference to the history of the times. *Professor* KING.

Three hours. First Term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

5. *Catullus, Tibullus, and Propertius*

Aims and methods as in 4. *Professor* GREENE.

Three hours. Second Term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

7, 8, 9. *Latin Poetry*

Aims to give a connected and comprehensive view of the history and development of Latin poetry. Forms with 10, 11, 12 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, Plautus. Second term, Lucretius. Third term, Juvenal and Martial. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Tu., Th., Sat., at 12.25.*

22, 23, 24.† *Latin Composition*

Professor GREENE.

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon. at 3.20.*

XXI. ROMANCE LANGUAGES AND LITERATURES

1. *Elementary Course*

Grammar, composition, dictation; translation of selections from modern authors into idiomatic English. The equivalent of the French required for admission. *Professor* MORSE.

Three hours. Through the year. Required of all students who did not present French for admission. *Mon., Wed., Th., at 10.25.*

2, 3, 4. *Intermediate Course*

First term, review of grammar, and sight translation of easy modern authors. Second term, translation of modern authors, with composition exercises based upon the text. Third term, selections from classical and modern authors. A general introduction to the study of French literature. *Professor* MORSE.

Three hours. Through the year. Required of all students who presented elementary French for admission. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.25.*

5, 6, 7. *French Language and Literature*

An introduction to classical and modern French literature; includes some study of the language. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who presented advanced French for admission. *Tu., Wed., Sat., at 9.25.*

8, 9, 10. *French Literature, exclusive of the Drama, from 1800 to 1850*

Chateaubriand, Hugo, Lamartine, De Musset, De Vigny, Balzac, George Sand, and Gautier; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Mon., Th., Fri., at 9.25.*

14.† *Composition*

Practice in writing French. Most appropriately taken in connection with 5, 6, 7; 8, 9, 10; or 11, 12, 13. *Professor* JOHNSON.

One hour. Through the year. Elective for students who have taken 2, 3, 4, or are taking 5, 6, 7. *Fri. at 2.20.*

20, 21, 22.† *French Literature, exclusive of the Drama, from 1600 to 1800*

Pascal, Madame de La Fayette, La Fontaine, Boileau, Bossuet, Madame de Sévigné, Saint-Simon, Le Sage, Voltaire, Rousseau. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 10 or 13. *Mon., Wed., Th., at 10.20.*

23, 24, 25. *The French Drama*

A two-year course covering the history of the French drama. The classical school from Corneille to Beaumarchais, and the romantic and realistic schools from Hugo to Rostand will be taken up in alternate years. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 7, 10, or 13. *Mon., Th., Fri., at 9.25.*

26, 27, 28.† *Modern Italian*

Grammar, composition, conversation, and rapid translation of modern authors. *Professor* MORSE.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

35, 36, 37. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and in connection with other great world-poems. An introduction to a study of comparative literature by means of the best available translations. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.25.*

38, 39, 40.† *Modern Spanish*

Grammar, conversation, composition, writing from dictation, and rapid reading. *Professor* JOHNSON.

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

XXII. SOCIAL AND POLITICAL SCIENCE‡

POLITICAL SCIENCE

1. *Political Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* WILSON.

Three hours. First Term. Sophomore, Junior, or Senior year. Required of candidates for the degree of Bachelor of Arts; elective for others. *Tu., Wed., Sat., at 9.25.*

SOCIAL SCIENCE

1. *Social Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

‡ The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

Three hours. Second Term. Sophomore, Junior, or Senior year. Must be preceded by Political Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others who have credit for Political Science 1. *Tu., Wed., Sat., at 9.25.*

2. *Social Institutions, Conditions, and Problems*

Historical development of domestic, religious, and political institutions; study of such social problems as charity, crime, intemperance, marriage, and divorce, etc. *Professor* DEALEY.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Th., Sat., at 12.25.*

PHYSICAL TRAINING

Mrs. PAINE

From the close of the Thanksgiving recess to March 10, all first and second year students are required to attend gymnasium classes three times a week as follows:

SOPHOMORE DIVISION: *Mon. Tu., Th., 2 to 2.45.*
FRESHMAN DIVISION: *Mon., Tu., Th., 3.20 to 4.05.*

ORGANIZATION OF THE WOMEN'S COLLEGE‡

INSTRUCTION for undergraduate women§ is provided by a department of the University known as THE WOMEN'S COLLEGE IN BROWN UNIVERSITY. The aim of the Women's College is to offer to all properly prepared women the same examinations, the same courses of study under the same teachers, and the same degrees that the University offers to men, but to preserve the distinct social life of a separate college.

The Corporation of the University assumes supervision and control of the Women's College as of other departments of the University, and for this purpose appoints annually an Executive Committee of the Women's College. The Corporation receives gifts of money to found scholarships, fellowships, and professorships in Brown University for the benefit of its women students, and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies, and bequests for the Women's College, like those meant

‡ Bulletins of the Women's College may be obtained from the Registrar, The Women's College in Brown University, Providence, R. I. For information not contained in this Catalogue or in the Bulletins, apply to the Dean of the Women's College.

§ In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and control is devolved, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

The Women's College has a separate recitation hall, gymnasium, and dormitory, but uses the various libraries, laboratories, and museums of the University. For a description of these latter buildings, see pages 145–153. The grounds of the Women's College are an eighth of a mile from the University, with the main entrance at 172 Meeting Street. Pembroke Hall, the recitation building, contains the offices of the Dean and of the Registrar, recitation rooms, a reading room and a library, a study, a chapel, and a lunch room. The Sayles Gymnasium contains the offices of the Instructor in Physical Training, a large hall with a gallery, a rest room, a study hall, and recitation rooms; the basement is fitted up with dressing rooms, bathrooms, lockers, needle and shower baths, and bowling alleys. The dormitory, the Slater Memorial Homestead, at 66 Benefit Street, has, in addition to the reception, living, and dining rooms, and the apartment occupied by the Head of the house, sleeping rooms for twenty-two students.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same as those which the University prescribes for men. For information concerning admission by certificate or examination, also with regard to the times and places of examinations, see pages 41–43. Certificates and applications for permission to take examinations should be sent to the Registrar of the University. For the entrance requirements for the various degrees, admission to advanced standing, and admission of special students, see pages 43–54. Each applicant for registration as a special student must consult the Dean of the Women's College, before registering.

REGISTRATION AND ENROLMENT

The regulations governing registration and enrolment are the same at the Women's College as at the University. (See pages 55, 56). All registration

and enrolment is at the office of the Registrar of the Women's College, in Pembroke Hall, between 9 a.m. and 12 m., or between 2 p.m. and 4 p.m., on the same days as at the University. Permission to change a previous registration must be obtained from the Dean, on the same days and at the same hours.

REQUIREMENTS FOR DEGREES

The requirements for the various degrees are explained on pages 58–64. Upon students of the Women's College who complete satisfactorily the work leading to the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, the Board of Fellows of the University confers the appropriate degree. For the degrees conferred in 1907, see pages 176–180.

EXAMINATIONS

As a rule women take the same examinations as those offered to men, and at the same times and places. When a separate examination is necessary, the two examinations are made as nearly identical in character as possible. (See pages 68, 69.)

PHYSICAL TRAINING AND MEDICAL CARE

From the close of the Thanksgiving recess to the end of the second term three hours a week of physical training are required of first and second year students; for other students voluntary classes are held. All work, including outdoor work, is under the supervision of the instructor. At the beginning of their Freshman and Sophomore years, students are carefully examined both by the College Physician and by the Director of the Department. Early each fall the College Physician gives five lectures on Personal Hygiene at which attendance is required of all new students. Any student may in case of illness visit or summon the College Physician; for this first call no fee is charged.

FEES

Students at the Women's College pay the same fees as other students of the University. (See pages 161, 162.) No deduction in tuition is made on account of absence. One-half of the tuition and of the incidental expenses must be paid in advance; the remainder is due January 1. Laboratory fees, etc., must be paid two weeks before the close of a term.

Special students at the Women's College are charged $10 a term for each course holding three recitations a week. Laboratory fees are in addition to this.

DORMITORY ACCOMMODATIONS

The College dormitory contains six double rooms and nine single rooms, adequately furnished. For a single room and for half of a double room, together with board, the charge is $245 a year. One-third of this sum is payable at the beginning of each term. Laundry work is charged extra. The price for meals,

without a room, is $3.75 a week. Students who do not live at home or in the College Dormitory are required to live in houses authorized by the College; a list of addresses may be secured from the Registrar.

Each student renting a room in the dormitory must sign a contract therefor in the form given below, on which surety may be demanded, binding her to pay or cause to be paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the College, whatever the cause of such removal.

The following is a contract between the Women's College in Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in Slater Memorial Homestead; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Dean of the Women's College in Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

*Signed*_____

This day of 190 .

LOAN FUNDS AND SCHOLARSHIPS

The College has a loan fund and various scholarships designed to aid deserving students. Aid is given only to students whose work is creditable, and is withdrawn if the recipients become deficient in scholarship or subject to college discipline. Applications should be made in writing to the Dean of the Women's College on or before May 1. Awards are made after July 1. A list of the funds and scholarships follows.

The Rhode Island Society for the Collegiate Education of Women has founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans. Further information may be obtained from the Dean.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some student in the Women's College, preferably the daughter of a member of the Club.

The College awards annually from its own funds scholarships of varying amounts, to students in need of financial aid. There are also the following endowed scholarships:

The Sarah E. Doyle Scholarship, of one thousand dollars, founded by the lady whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence English High School.

The Sarah Sutton Scholarship, of one thousand dollars, founded by one of her daughters.

The Daniels Scholarship, of twenty-five hundred dollars, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College adjunct thereto.

The Howard Scholarship, of one thousand dollars, presented by James Leland Howard of Hartford, Conn.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

PRIZES, PREMIUMS, AND HONORS

The Gaspee Chapter Daughters of the American Revolution Prize. This prize of forty dollars is awarded annually to that student in the graduating class of the Women's College who shall present the best essay of recognized merit upon some topic in American history. The essays are to bear each an assumed name, and to be accompanied by an envelope marked with the assumed name and enclosing the candidate's real name and address. The essays must be handed to the Dean before May 1. The award is announced on Commencement Day. The topic for 1907–8 is: *The Public Life of John Adams during the American Revolution.*

The Chace Prize. The will of Mrs. Elizabeth D. Chace makes provision for a prize of twenty-five dollars, to be awarded for a term of years to that student of the Women's College who shall present the best essay, of recognized merit, upon the Women's Suffrage Movement.

Philosophical Prizes. In 1907–8 are offered two prizes, a first prize of seventy-five dollars and a second prize of twenty-five dollars, for the best and second best essays, of recognized merit, on a philosophical subject. The subject assigned for 1907–8 is: *Pragmatism; its Meaning and Value.*

The Society of Colonial Dames Prize in American History. The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American

colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year, and the name of the successful competitor is announced at Commencement. The subject for the essay in 1907–8 is: *The Public Life of Nathanael Greene.*

Additional Premiums. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, competed for by examination, a prize, the amount of which is duly announced, is awarded by the Dean.

Honors. Term Honors and Final Honors are awarded by the University to women on the same conditions as to men. (See page 175.)

PRIZES AND PREMIUMS AWARDED IN 1906–7

The Gaspee Chapter Daughters of the American Revolution Prize, to Louise Baggott Morgan.

The Philosophical Prizes, in equal parts, to Louise Baggott Morgan and Louise Schutz.

The English Prizes: the first prize to Katherine Everett, the second prize to Louise Baggott Morgan.

The Chace Prize: the second prize to Marjorie Maud Stone.

The Lucius Lyon Premiums in Latin: a collateral first premium to Louise Baggott Morgan.

The President's Premiums in Greek: a collateral first premium to Gertrude Hildreth Campbell, instructed in the Providence Classical High School; honorable mention to Sallie Wolff Mielatz, instructed in the Rogers High School, Newport.

The President's Premiums in French: a collateral first premium to Gertrude Hildreth Campbell, instructed in the Providence Classical High School.

The Hermann G. Possner Prizes in German: a collateral first premium to Bessie Edith Bloom, instructed in the Hope Street High School, Providence.

The Hartshorn Premiums: honorable mention to Gertrude Hildreth Campbell, instructed in the Classical High School, Providence.

LIST OF STUDENTS ARRANGED BY CLASSES

SENIORS: CLASS OF 1908

NAME	RESIDENCE
Mary Wood Arnold	*Touisset, Mass.*
Berta Edith Baldwin	*Coos, N. H.*
Jeanette Holmes Baldwin	*Coos, N. H.*
Louise Adams Bourne	*Providence*
Laura Cindarella Brant	*Nooseneck*
Rosa Ellen Brant	*Nooseneck*
Dorothea Brenton Burge	*Edgewood*
Gertrude Mace Childs	*Swampscott, Mass.*
Bertha Guild Coffin	*Milford, Mass.*
Elizabeth Reynolds Cole	*Warren*
Gertrude Marsh Ellis	*Fairhaven, Mass.*
Nelly Mary Evans	*Port Chester, N. Y.*
Katherine Everett	*East Chicago, Ind.*
Ruth Leonard Foster	*Providence*
Lida Montfort Fowler	*Providence*
Mary Amelia Gorman	*Providence*
Mary Isabel Hall	*Providence*
Frances Eldridge Hatch	*Providence*
Emily Sarah Elizabeth Harvey	*La Grange, Mo.*
Hattie Maria Holt	*Providence*
Sarah Ann Ide	*East Providence*
Madeleine Katharine Johnson	*Providence*
Abbie Howard Keith	*Putnam, Ct.*
Audrey Lydia Lake	*Fall River, Mass.*
Cora Ella Medbury	*Providence*
Caroline Battelle Phillips	*Providence*
Alice Manchester Potter	*Providence*
Alice Ethel Presbrey	*Providence*
Fannie Whittlesey Shore	*Pawtucket*
Lydia Ann Slade	*Swansea, Mass.*
Marjorie Whitney Stevens	*Providence*
Beatrice Anna Sturdy	*Providence*
Laura Ellen Webster	*Providence*
Hannah Grace Welch	*Warren*
Mary Harkness White	*Providence*
Emilie Marie Louise Wildprett	*Providence*

JUNIORS: CLASS OF 1909

NAME	RESIDENCE
Carrie Ethel Baker	*Fairhaven, Mass.*
Lida May Bassett	*Plymouth, Mass.*
Mattie Lucina Beattie	*Bloomfield, Vt.*
Agnes Marie Blaine	*New York, N. Y.*
Lucile Murray Blanchard	*Uxbridge, Mass.*
Agnes Gertrude Brown	*Providence*
Hazel McCrum Buckey	*Central Falls*
Ada Irene Burton	*Pawtucket*
Nettie Louise Butler	*Providence*
Anna Clarke Carpenter	*Manton*
Helen Frances Crawshaw	*Providence*
Mary Carr Crowell	*Warren*
Charlotte Christabell Delany	*Pawtucket*
Ruth Augusta Dexter	*Central Falls*
Mildred Diman	*Contoocook, N. H.*
Elizabeth Mary Eaton	*Grasmere, N. H.*
Frances Allen Foster	*Providence*
Marguerite Grace Frost	*Providence*
Irma Alida Gyllenberg	*Providence*
Ellyn Marguerite Hague	*Cumberland Hill*
May Winsor Hall	*Providence*
Agnes Jonas	*Providence*
Irene Lydia Laraway	*Providence*
Emma Dunham Lee	*Newport*
Gertrude May Marble	*Attleboro, Mass.*
Bessie Louise Mayo	*Milton, N. H.*
Elise Emeline McCausland	*Providence*
Louise McNerney	*Attleboro, Mass.*
Margaret Julia Morgan	*Providence*
Maude Bixby Nichols	*Providence*
Mary Loretta O'Brien	*Warren*
Ethel Fanning Riley	*Providence*
Cora Collette Robinson	*Providence*
Josephine Thomson Sackett	*Providence*
Myra Melissa Sampson	*Fall River, Mass.*
Annie Martha Sanders	*Bristol, N. H.*
Isabelle Douglas Scott	*Providence*
Bina May Shorey	*Providence*
Margaret Bingham Stillwell	*Providence*
Mabel Winifred Tourtellot	*Providence*

SOPHOMORES: CLASS OF 1910

NAME	RESIDENCE
Gertrude Mary Allen	*Riverside*
Gwendolen Blodgett	*Providence*
Elizabeth Marie Boardman	*Providence*
Dorothy Bourne	*Pontiac*
Alma Romaine Brown	*Attleboro, Mass.*
Harriet Josephine Buck	*Mansfield, Mass.*
Annie Esther Burnside	*Pawtucket*
Mabel Kincaid Bushell	*Providence*
Alice Frances Cook	*Georgiaville*
Frances Julia Corp	*Providence*
Lillian Ruth Cosgrove	*Brockton, Mass.*
Marion Elizabeth Dean	*Taunton, Mass.*
Lydia Theodora Dobler	*Providence*
Helen Emilie Gindele	*Pawtucket*
Clara Estelle Hefner	*Southbridge, Mass.*
Mabel Irene Huton	*Plainville, Mass.*
Alice Scott Maile	*Los Angeles, Cal.*
Elizabeth Morrison	*Providence*
Caroline Millard Morton	*Providence*
Nellie Blithe Nicholson	*Baltimore, Md.*
Flora Marie Rausch	*Providence*
Hazel Louise Raybold	*Providence*
Marion Augusta Richards	*Attleboro, Mass.*
Bernice Estelle Sears	*Providence*
Abbie Deborah Steere	*Hingham Centre, Mass.*
Marjorie Maud Stone	*Providence*
Mary Clegg Suffa	*Providence*
Alice Ida Sweet	*Providence*
Leila Tucker	*Providence*
Alice Mary Wilbur	*Mansfield, Mass.*
Mildred Corinne Williams	*Providence*
Isabel Stuart Wood	*East Greenwich*

FRESHMEN: CLASS OF 1911

Lydia Harris Andrews	*Providence*
Irene Maude Bedell	*Livingston, N. J.*
Mela Elsie Bennett	*Providence*
Bessie Edith Bloom	*Providence*
Ruth Constance Burroughs	*Pawtucket*
Annie Louise Campbell	*Providence*
Gertrude Hildreth Campbell	*East Providence*

NAME	RESIDENCE
Edith Marie Linnea Carlborg	*Providence*
Alletta Kreemer Chamberlain	*Central Falls*
Gertrude Clampitt	*N. Attleboro, Mass.*
Stella Risley Clemence	*Providence*
Rachael Abbie Coolidge	*Pasadena, Cal.*
Lyla Cameron Crapo	*Taunton, Mass.*
Emma Henrietta Dahlgren	*Attleboro, Mass.*
Mary Catherine Furlong	*Pomfret Centre, Ct.*
Stella Gerber	*Webster, Mass.*
Mildred Annie Hatch	*Riverside*
Sadie Hewitt	*Attleboro, Mass.*
Alice Frances Hildreth	*Providence*
Edith Lauraette Knights	*Riverside*
Marion Bowler Lester	*Newport*
Catherine Virginia Golding Levere	*Bristol*
Maybelle Rhoda Mackie	*Providence*
Eva Waterman Magoon	*Providence*
Mildred Mason	*Providence*
Mary Catherine McMahon	*Pawtucket*
Sallie Wolff Mielatz	*Saunderstown*
Jeanette Bell Moffitt	*Providence*
Mildred Louise Mott	*Providence*
Hannah Senior Nicholson	*Pawtucket*
Bertha Annie Payson	*Rockport, Me.*
Clara Irene Perry	*Providence*
Naomi Williams Read	*Pawtucket*
Jennie Fatima Robinson	*Brockton, Mass.*
Clara Ailman Stanhope	*Newport*
Lillabelle Tyrrell Sweeney	*Trenton, N. J.*
Elizabeth Dexter Thacher	*Pawtucket*
Grace Thompson	*West Townsend, Mass.*
Lida Etta Tuttle	*Mansfield, Mass.*
Irma Langley West	*Glenville, W. Va.*
Flora Ella Wilbur	*Natick*
Marjorie Phillips Wood	*Taunton, Mass.*
Nina Emma Woodbury	*Providence*

SPECIAL STUDENTS

Jeannie Oliver Arnold	*Providence*
Helen Newell Bell	*Bristol*
Gertrude Marion Brown	*Providence*
Ida Zilpha Cargill	*N. Attleboro, Mass.*
Edith Abigail Cate	*Providence*

NAME	RESIDENCE
Eunice Mildram Clark	*Providence*
Laura Elizabeth Cooke	*Providence*
Sara Cranston	*Providence*
Marion King Evans	*Providence*
Hattie Greenblatt	*Providence*
Mabel Eunice Guile	*Providence*
Katharine Carver Gurney	*Providence*
Susan Wilbur Slade Hardy	*Providence*
Marie Kiernan	*Providence*
Catherine Frances Nulty	*Woonsocket*
Rose Bachrach Pollock	*Providence*
Josephine Tillinghast	*Providence*
Mary Katherine Wallis	*Providence*
Louise Southworth Williams	*Providence*

APPENDIX

THE BROWN UNIVERSITY TEACHERS' BUREAU

THE Brown University Teachers' Bureau was established for the purpose of communicating with institutions desiring to employ graduates of Brown as teachers. To this end it solicits correspondence with those who are seeking well equipped teachers, and invites inspection of the list of such teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools. It is the further purpose of the Bureau to foster coöperation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates is kept. The office of the Secretary, Professor WALTER BALLOU JACOBS, is in the Administration Building, Room 10.

THE BROWN UNIVERSITY TEACHERS' ASSOCIATION

The Brown University Teachers' Association was organized in 1903. The purpose of the Association is "first, to further the mutual interests of Brown University and the schools preparing students therefor; and second, to promote the welfare of the Alumni of the University who are teachers."

The sixth annual meeting of the Association will be held on Friday and Saturday, March 20 and 21, 1908. The sessions will be as follows:

Friday afternoon, MANNING HALL: The College Entrance Requirement in English.

Friday evening, MANNING HALL: Address.

Saturday morning, MANNING HALL: Motives in Education.

OFFICERS FOR 1907–8

President: Professor WALTER COCHRANE BRONSON, LITT.D.

1st Vice-President: CHARLES EDWARD DENNIS, PH.D.

2d Vice-President: Professor NATHANIEL FRENCH DAVIS, LL.D.

Secretary: Professor WALTER BALLOU JACOBS, A.M.

Treasurer: WILLIAM SETCHELL LEARNED, A.B.

Executive Committee: THE OFFICERS OF THE ASSOCIATION AND THE PRESIDENT OF THE UNIVERSITY, *ex officio;* Professor JOHANNES BENONI EDUARD JONAS, PH.D.; HERBERT ELMER DRAKE, A.M.; ELMER SAMUEL HOSMER, A.M.

THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY

OFFICERS AND COMMITTEES FOR 1907–8

President: Professor Walter Goodnow Everett, Ph.D.

Vice-President: Rev. William Henry Lyon, D.D.

Secretary: Professor Otis Everett Randall, Ph.D.

Treasurer: Robert Perkins Brown, A.M.

Committee on Nominations: Professor Winslow Upton, Sc.D., Henry Frederic Lippitt, A.B., Charles Talbot Dorrance, A.B., Daniel Beckwith, A.B., Harold Crins Field, A.B.

Committee on Arrangements: Professor Walter Goodnow Everett, Ph.D., Hon. Charles Carney Mumford, A.M., Hon. William Wilberforce Douglas, LL.D.

Auditing Committee: Walter James Towne, A.M., William Washburn Moss, A.M.

Committee on New Chapters: Professor Otis Everett Randall, Ph.D., Professor Walter Ballou Jacobs, A.M., Rev. Thomas Elliott Bartlett, A.B.

MEN ELECTED IN 1907

Seniors: Claude Raymond Branch, Vernon Krieble Krieble, Charles Dillon McEvoy, Thomas Randolph Marshall, William Partridge, Jr., Leon Frank Payne, Victor Arthur Schwartz, Benjamin Graves Sinclair, Walter Clifton Slade.

Juniors: David Justin Allen, Sheldon Jenckes Howe, Carl Joseph Hunkins, Alfred Joseph Maryott, Thomas Miller, Alfred John Olsen, Jr., Earle Winfield Peckham, Harlan True Stetson.

WOMEN ELECTED IN 1907

Seniors: Marion Shirley Cole, Kathrine Marion MacKenzie, Alice Rhodes Martin, Ethel Louise Robinson.

Juniors: Katherine Everett, Abbie Howard Keith, Marjorie Whitney Stevens.

THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

Students who have taken at least seventy-eight term hours in pure or applied science are, in their Senior year, eligible to membership in the honorary scientific society, Sigma Xi, provided that they have "given promise of marked ability in those lines of work which it is the object of the Society to promote."

OFFICERS AND COMMITTEES FOR 1907–8

President: Professor Edmund Burke Delabarre, Ph.D.
Vice-President: Professor Frederick Slocum, Ph.D.
Recording Secretary: Professor Charles Wilson Brown, A.M.
Corresponding Secretary: Professor Albert Davis Mead, Ph.D.
Treasurer: Professor James Franklin Collins, Ph.B.
Auditor: Professor Arthur Eugene Watson, Ph.D.
Councillor: Professor John Edward Hill, Sc.D.
Committee on Nominations: Professor John Emery Bucher, Ph.D., Professor Arthur Horace Blanchard, A.M., Professor Albert de Forest Palmer, Jr., Ph.D., Professor Charles Wilson Brown, A.M., Professor Nathaniel French Davis, A.M., LL.D.

MEMBERS ELECTED IN 1907

Graduate Student: Lulu Broadbent Joslin, '05.
Seniors: Vernon Krieble Krieble, Joseph James Malcolm, Harold Edmund Miller, William Nisbet Ross, Walter Clifton Slade, Everett Harold Swett, Ph.B.

THE ASSOCIATED ALUMNI

OFFICERS AND COMMITTEES FOR 1907–8

President: Hon. Arthur Lewis Brown, LL.D., Providence, R. I.
Vice-Presidents: Rt. Rev. Frederick Burgess, D.D., Garden City, N. Y., Samuel Hanson Ordway, A. M., New York City.
Secretary: George Grafton Wilson, Ph.D., Providence, R. I.
Treasurer: Robert Wendell Taft, Ph.B., Providence, R. I.
Executive Committee: Albert Allison Baker, A.B., Seeber Edwards, A.B., LL.B., Frank Willington Matteson, Ph.B., John Russell Gladding, A.B., John Byron Diman, A.M.
Advisory Committee: Hon. Lucius Brown, LL.B., William Richardson Dorman, LL.B., Hon. Charles Carney Mumford, A.M., George Grafton Wilson, Ph.D., *ex officio*, and representatives to be chosen by the Alumni Associations.

THE ALUMNAE ASSOCIATION OF BROWN UNIVERSITY

OFFICERS FOR 1907–8

President: Mrs. William Thompson Hastings, A.B., Providence, R. I.
Vice-President: Miss Harriet Barrows Utter, A.M., Providence, R. I.
Recording Secretary: Miss Mary Beecher Leonard, A.M., Providence, R. I.
Corresponding Secretary: Miss Hannah Heaton, Ph.B., 152 George Street, Providence, R. I.
Treasurer: Miss Florence Josephine Whiting, A.M., Briarcliff Manor, N. Y.

ALUMNI ASSOCIATIONS

BOSTON. *President*, Chas. R. Adams, '80. *Vice-President*, John M. English, '70. *Secretary*, Chas. E. Clift, '97. *Treasurer*, F. W. Woodcock, '91. *Executive Committee:* Geo. L. Parker, '96; Chas. H. Hare, '85; Fred T. Field, '00; Rufus E. Corlew, '98; H. H. Tucker, '01.

NEWPORT. *President*, A. R. Wheeler, '01. *First Vice-President*, W. R. Harvey, '01. *Second Vice-President*, W. P. Buffum, '79. *Secretary and Treasurer*, C. A. Carr, '87. *Executive Committee:* B. F. Thurston, '80; R. G. Martin, '04; F. M. Hammett, '80.

WOONSOCKET. *President*, Francis H. Spear, '91. *Vice-President*, Frank E. McFee, '75. *Secretary*, F. E. Whitaker, '88. *Treasurer*, Arthur M. M. Comee, Ex. '99. *Executive Committee:* Wm. Ashton Thompson, Ex. '99; M. Lester Hough, Ex. '08; L. H. Ballou, Ex. '04.

FALL RIVER. *President*, A. I. Connell, '87. *Secretary*, Henry M. Fenner, '01. *Treasurer*, Augustus J. Wood, Ex. '95. *Executive Committee:* Wm. T. Learned, '82; G. C. Hathaway, '99; A. I. Connell, '87; Henry M. Fenner, '01; Augustus J. Wood, Ex. '95; Richard J. Barker, Jr., Ex. '98.

WORCESTER COUNTY SONS OF BROWN. *President:* Geo. A. Gaskill, '98. *Vice-President:* H. F. Gould, '92. *Secretary and Treasurer:* John A. Clough, '99. *Executive Committee:* The officers and Chas. B. Elder, '77; Chas. L. Nichols, '72; Ray W. Greene, '83; H. H. Rockwell, '96; W. H. Whiting, '01.

CONNECTICUT VALLEY. *President*, A. P. Record, '92. *Vice-President*, Scott Adams, '95. *Secretary and Treasurer*, W. H. Mitchell, '00. *Executive Committee:* A. D. Call, '96; W. A. Briggs, '00; A. S. Gaylord, '02.

NEW YORK CITY. *President*, Gardner Colby, '87. *Vice-President*, H. C. Bumpus, '84. *Secretary*, A. B. Meacham, '96. *Treasurer*, W. R. Dorman, '92. *Board of Governors:* J. B. F. Herreshoff, '70; Arthur Lincoln, '70; J. M. Duane, '72; S. H. Ordway, '80; C. E. Hughes, '81; N. S. Dike, '85.

CENTRAL NEW YORK. *President*, F. R. Hazard, '81. *Vice-President*, J. S. Fox, '94. *Secretary and Treasurer*, W. G. Bullard, '92.

ROCHESTER. *President*, C. A. Barbour, '88. *Secretary and Treasurer*, H. C. Peepels, '81.

PHILADELPHIA. *President*, George H. Ferris, '91. *First Vice-President*, Frank A. Smith, '89. *Second Vice-President*, E. S. Thompson, '86. *Secretary*, W. H. Bennett, h. '84. *Treasurer*, Pierson T. Fort, Ex. '95. *Executive Committee:* H. A. Coffin, '01; P. B. Greene, '01; J. G. Melendy, '01.

ALBANY AND VICINITY. *Honorary President:* Charles E. Hughes, '81. *President:* Charles S. Stedman, '96. *Vice-President:* William MacDonald, Jr., '95. *Secretary:* S. A. McComber, '96. *Treasurer:* L. B. Wilmarth, '90. *Executive Committee:* James H. Spencer, '82; E. W. Wilkinson, '00; E. W. Babcock, '74.

Maryland and District of Columbia. *President:* W. A. Wilbur, '88. *Vice-President:* J. C. Monaghan, '85. *Secretary and Treasurer:* J. H. Olcott, '72. *Executive Committee:* W. A. Slade, 98; Haven Metcalf, '96; T. E. B. Pope, '02.

Cleveland. *President:* F. J. Dickman, '46. *Vice-President:* F. P. Whitman, '74. *Secretary and Treasurer:* F. H. Sibley, '98. *Executive Committee:* R. T. King, '78; C. G. King, '84; F. H. Sibley, '98.

Cincinnati. *President:* E. W. Coy, '58. *Vice-President:* W. H. Pabodie, '55. *Secretary:* S. W. Smith, Jr., '80.

Chicago. *President:* A. H. Nelson, '58. *Vice-President:* Julius A. Johnson, '82. *Secretary and Treasurer:* F. L. Morse, '86. *Executive Committee:* E. T. Stevens, '04; C. A. Cook, '91; R. L. Barrows, '03.

Northwestern. *President:* Claude E. Stevens, '01. *Secretary:* Moncrieffe Cameron, '00; *Treasurer:* W. G. Jones, '90.

St. Louis. *President:* D. S. H. Smith, '62. *Secretary:* A. L. Abbott, '80. *Treasurer:* J. B. Edwards, '96.

Colorado. *President:* F. E. Brooks, '83. *Treasurer:* S. L. Caldwell, '75. *Secretary:* C. P. Bennett, '79.

Japan. *President:* A. A. Bennett, '72. *Secretary:* W. B. Bullen, '99.

TABLE SHOWING RENT AND LOCATION OF DORMITORY ROOMS

HOPE COLLEGE

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
1	South	1	E. & S.	There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40 43 and 44, can be used either as suites or as single rooms.	$126
2	"	"	W. & S.		132
3	"	"	W.		126
4	"	"	E.		123
5	"	2	E. & S.		126
6	"	"	W. & S.		132
7	"	"	W.		126
8	"	"	E.		123
9	"	3	E. & S.		117
10	"	"	W. & S.		123
11	"	"	W.		117
12	"	"	E.		111
13	"	4	E. & S.		111
14	"	"	W. & S.		117
15	"	"	W.		111
16	"	"	E.		108
17	Middle	1	E.		123
18	"	"	W.		126
19	"	"	W.		126
20	"	"	E.		123
21	"	2	E.		123
22	"	"	W.		126
23	"	"	W.		126
24	"	"	E.		123
25	"	3	E.		111
26	"	"	W.		117
27	"	"	W.		117
28	"	"	E.		111
29	"	4	E.		108
30	"	"	W.		111
31	"	"	W.		111
32	"	"	E.		108
33	North	1	E.		123
34	"	"	W.		126
35	"	"	W.		138
36	"	"	E.		138
37	"	2	E.		123
38	"	"	W.		126
39	"	"	W. & N.		138
40	"	"	E. & N.		138
41	"	3	E.		111
42	"	"	W.		117
43	"	"	W. & N.		126
44	"	"	E. & N.		126
45	"	4	E.		108
46	"	"	W.		111
47	"	"	W. & N.		117
48	"	"	E. & N.		117

UNIVERSITY HALL

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
4	South	1	W.	*None*	$130
10	"	2	S. & W.	2	250
12	"	"	W.	*None*	115
13	"	"	W.	"	115
16	"	"	E.	"	100
17	"	"	E.	"	106
18	"	"	E. & S.	"	133
19	"	3	S. & W.	2	240
21	"	"	W.	*None*	112
22	"	"	W.	"	112
25	"	"	E.	"	100
26	"	"	E.	"	100
27	"	"	E. & S.	"	121
28	"	4	S. & W.	2	220
30	"	"	W.	*None*	100
31	"	"	W.	"	100
33	"	"	E.	"	97
34	"	"	E. & S.	"	121
36	North	1	W.	"	130
40	"	2	W.	"	115
41	"	"	W.	"	115
43	"	"	W. & N.	2	250
44	"	"	E. & N.	*None*	121
45	"	"	E.	"	106
46	"	"	E.	"	106
47	"	3	W.	"	106
48	"	"	W.	"	106
50	"	"	W. & N.	2	240
51	"	"	E. & N.	*None*	115
52	"	"	E.	"	100
53	"	"	E.	"	100
54	"	4	W.	"	100
55	"	"	W.	"	100
57	"	"	W. & N.	2	210
58	"	"	E. & N.	*None*	115
59	"	"	E.	"	97
60	"	"	E.	"	97

SLATER HALL

1	South	1	E. S. & W.	2	260.00
2	"	"	E. & W.	1	200.00
3	"	2	E. S. & W.	2	260.00
4	"	"	E. & W.	2	245.00
5	"	3	E. S. & W.	2	250.00
6	"	"	E. & W.	2	245.00
7	"	4	E. S. & W.	1	175.00
8, 9	"	"	W.	1	194.00
10	North	1	E. & W.	2	269.50
11	"	"	E. W. & N.	2	269.50

SLATER HALL (*continued*)

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
12	North	2	E. & W.	2	$269.50
14	"	"	W. N. E.	2	286.00
15	"	3	W. & E.	2	264.00
17	"	"	W. N. E.	2	275.00
18, 19	"	4	E. & W.	1	206.80
20	"	"	W. N. E.	1	176.00

CASWELL HALL

1	North	1	E. N. & W.	1	375
2	"	"	E. & W.	1	350
3	"	2	E. N. & W.	2	375
4	"	"	E. & W.	2	350
5	"	3	E. N. & W.	2	375
6	"	"	E. & W.	2	350
7	"	4	E. & N.	*None*	195
8	"	"	W. & N.	"	195
9	"	"	W.	"	165
10	"	"	E.	"	165
11	Middle	1	"	"	175
12	"	"	W.	"	175
13	"	"	"	"	175
14	"	"	E.	"	175
15	"	2	"	"	185
16	"	2	W.	"	185
17	"	"	"	"	185
18	"	"	E.	"	185
19	"	3	"	"	185
20	"	"	W.	"	185
21	"	"	"	"	185
22	"	"	"	"	185
23	"	4	E.	"	165
24	"	"	W.	"	165
25	"	"	"	"	165
26	"	"	E.	"	165
27	South	1	E. & W.	1	350
28	"	1	E. S. & W.	1	375
29	"	2	E. & W.	2	350
30	"	"	E. S. & W.	2	375
31	"	3	E. & W.	2	350
32	"	"	E. S. & W.	2	375
33	"	4	E.	*None*	165
34	"	"	W.	"	165
35	"	"	W. & S.	"	195
36	"	"	E. & S.	"	195

MAXCY HALL

No.	*Floor*	*Windows face*	*Rent*
313	3	E.	$140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

DIRECTORY TO THE DORMITORIES

Hope College, South Division, Rooms 1 to 16.
Hope College, Middle Division, Rooms 17 to 32.
Hope College, North Division, Rooms 33 to 48.
Maxcy Hall, Rooms 313 to 436.
Slater Hall, South Division, Rooms 1 to 9.
Slater Hall, North Division, Rooms 10 to 20.
University Hall, South Division, Rooms 1 to 34.
University Hall, North Division, Rooms 35 to 61.
Caswell Hall, North Division, Rooms 1 to 10.
Caswell Hall, Middle Division, Rooms 11 to 26.
Caswell Hall, South Division, Rooms 27 to 36.

SUMMARY OF STUDENTS

UNDERGRADUATE MEN

Seniors	124
Juniors	137
Sophomores	138
Freshmen	221
Special Students	41
Total	661

THE WOMEN'S COLLEGE

Seniors	36
Juniors	40
Sophomores	30
Freshmen	43
Special Students	18
Total	167

GENERAL SUMMARY

Graduates	102
Undergraduate Men	661
Women's College	167
	930
Deduct for names counted twice	6
Total	924

DIRECTORY OF OFFICERS AND STUDENTS

The addresses given are in Providence, unless otherwise stated. If an officer is on leave of absence for the year, his name is bracketed. The following abbreviations are used: *Fr.* = Freshman; *So.* = Sophomore; *Jr.* = Junior; *Sr.* = Senior; *Sp.* = Special Student; *Gr.* = Graduate Student; *W.* = Women's College; *J. C. B. L.* = John Carter Brown Library.

Abercrombie, D. W., *Trustee*	*Worcester Academy*, Worcester, Mass.
Abercrombie, D. W., Jr., *So.*	Caswell 21
Adams, L. H., *Fr.*	Hope 32
Adams, Miss M. L., *Gr.*	133 Mitchell St.
Albee, K. F., *So.*	Caswell 4
Aldrich, J. M., *So.*	Hope 46
Alger, J. H., *Jr.*	Brunonia 1
Allen, D. J., *Sr.*	Hope 6
Allen, E. B., *Fr.*	University 58
Allen, R. D., *So.*	Hope 11
Allen, G. M., *W. So.*	*50 Turner Ave.*, Riverside
Allinson, F. G., *Professor*	163 George St.
Allinson, Mrs. F. G., *Advisory Council, W.*	163 George St.
Almy, M. A., *So.*	Hope 8
Anderson, J. A., *Fr.*	Hope 28
Anderson, T. D., *Sec'y of Corporation*	*379 State St.*, Albany, N. Y.
Andrews, L. H., *W. Fr.*	63 Barnes St.
Andrews, R. B., *Fr.*	262 Benefit St.
Anthony, W. C., *So.*	University 33
Appleton, J. H., *Professor*	209 Angell St.
Appleton, P., *Fr.*	Slater 5
Archie, J. C., *Fr.*	Brunonia 2
Arnold, M. W., *W. Sr.*	Touisset
Atwater, R. M., *Trustee*	Chadds Ford, Pa.
Atwood, C. W., *So.*	Hope 38
Austin, C. R., *Gr.*	122 Doyle Ave.
Auty, F. S., *Sr.*	Edgewood
Ayer, T. P., *Jr.*	University 26
Ayler, H. R., *Jr.*	University 55
Babcock, D. S., *So.*	4 Manning St.
Babcock, G. W., *Jr.*	University 41

Babcock, H. P., *Jr.*	4 Manning St.
Baber, J. A., *Gr.*	Jackson, Tenn.
Babington, V. E., *Fr.*	University 4
Bachrach, R. B. P., *W. Sp.*	127 Indiana Ave.
Bailey, W. W., *Professor Emeritus*	6 Cushing St.
Baker, C. E., *W. Jr.*	48 Pekin St.
Baker, D. S., *Fr.*	54 College St.
Baker, M. W., Jr., *Fr.*	Hope 32
Baldwin, B. E., *W. Sr.*	88 Benefit St.
Baldwin, J. H., *W. Sr.*	88 Benefit St.
Banfield, F. E., Jr., Ph.B., *Sr., Gr., Assistant*	Brunonia 6
Bannan, Miss M. E., *Gr.*	313 Prairie Ave.
Barbour, T. S., *Trustee*	*Tremont Temple*, Boston, Mass.
Barker, H. O., *Fr.*	Caswell 31
Barrett, G. H., *So.*	University 45
Barrett, H. L., *Jr.*	Slater 8
Barus, C., *Professor, Dean of Graduate Department*	30 Elmgrove Ave.
Barus, Mrs. C., *Advisory Council, W.*	30 Elmgrove Ave.
Barus, M., *So.*	Slater 10
Bassett, L. M., *W. Jr.*	150 Pitman St.
Battey, J. E., *So.*	Hope 20
Beattie, J., *Fr.*	178 Cypress St.
Beattie, M. L., *W. Jr.*	42 College St.
Beckwith, I. J., *Gr.*	*27 Bank St.*, Dayton, Ohio
Bedell, I. M., *W. Fr.*	184 Meeting St.
Beeber, S. J., *Sr.*	Maxcy 428
Beliavsky, J., *Fr.*	22 James St.
Bell, H. N., *W. Sp.*	66 Benefit St.
Benedict, G. W., *Associate Professor*	16 John St.
Bengert, E. P., *Fr.*	Caswell 8
Benjamin, J. E., *Sr.*	Slater 10
Bennett, A. A., Jr., *Fr.*	113 East Manning St.
Bennett, M. E., *W. Fr.*	113 East Manning St.
Bennett, C. B., *Gr.*	113 East Manning St.
Bennett, R. K., *Jr.*	Hope 48
Beytes, L. H., *Jr.*	32 Custom House St.
Bichwit, W., *Jr.*	7 West Park St.
Bien, Z. S., *Sp.*	41 Angell St.
Bingham, R. W., Jr., *Fr.*	University 10
Bissel, R. W., *Fr.*	Slater 8
Bitting, W. C., Jr., *Sr.*	54 College St.
Blackburn, W. A., *So.*	Hope 45
Blaine, A. M., *W. Jr.*	88 Benefit St.
Blake, Mrs. H. M., *Gr.*	87 Grove St.

Blanchard, A. H., *Associate Professor*	62 University Ave.
Blanchard, L. M., *W. Jr.*	101 Congdon St.
Bliss, E. F., *Fr.*	Caswell 15
Bliss, H. B., *Fr.*	Barrington
Bliss, J. E., *So.*	University 12
Blodgett, G., *W. So.*	145 Lloyd Ave.
Blood, P. F., *Fr.*	8 De Foe Place
Bloom, B. E., *W. Fr.*	202 Lippitt St.
Boardman, E. M., *W. So.*	112 Ring St.
Boas, R. P., *Sr.*	Brunonia 6
Bogle, I. W., *Jr.*	University 57
Bond, N. J., *Fr.*	Caswell 26
Bonn, Miss M. H., *Gr.*	12 Spencer St.
Bosworth, C. W., *Jr.*	94 Angell St.
Bosworth, E. C., *Fr.*	Foxboro, Mass.
Bourne, D., *W. So.*	Pontiac
Bourne, L. A., *W. Sr.*	100 Taber Ave.
Bowne, C. B., *So.*	Slater 18
Boyce, F. M., *Jr.*	University 45
Brady, W. A., *Gr.*	Coweset
Brant, L. C., *W. Sr.*	61 Wilson St.
Brant, R. E., *W. Sr.*	61 Wilson St.
Breckenridge, A. L., *Fr.*	20 Arch St.
Brennan, J. B., Jr., *Fr.*	University 16
Brett, A. L., *So.*	Brunonia 9
Briggs, C. W., Jr., *Sp.*	Caswell 5
Brigham, C. S., *Archivist*	95 Waterman St.
Brightman, C. L., *Jr.*	University 45
Brightman, E. S., *Gr., Assistant*	Caswell 29
Bronson, W. C., *Professor*	232 Brown St.
Brookins, H. T., *Fr.*	Maxcy 435
Brooks, F. E., *Trustee*	*1324 North Nevada Ave.*, Colorado Springs, Col.
Brown, A. G., *W. Jr.*	26 Rhode Island Ave.
Brown, A. R., *W. So.*	*R. F. D. 4*, Attleboro, Mass.
Brown, C. W., *Assistant Professor*	101 Williams St.
Brown, Miss G. E., *Secretary to Dean*	42 W. Friendship St.
Brown, J. J., *Fr.*	22 College St.
[Brooks, A.], *Assistant Professor*	39 Benevolent St.
Brown, Mrs. G. M., *W. Sp.*	66 Moore St.
Brown, H. P., *Jr.*	509 Park Ave.
Brown, W. S., *Fr.*	University 19
Browne, F. E., *W. Sr.*	12 Arch St.
Browne, W. W., *Sr.*	94 Angell St.
Bruenner, A. F., *Fr.*	Maxcy 321

Brunquist, E. H., *Fr.*		9 Chestnut St.
Bucher, J. E., *Associate Professor*		35 Humboldt Ave.
Buck, F. A., *Fr.*	*Box 471*,	Mansfield, Mass.
Buck, H. J., *W. So.*		Mansfield, Mass.
Buckey, H. M., *W. So.*	*119 Cross St.*,	Central Falls
Bucklin, H. S., *So.*		Hope 45
Buddington, O. W., *Sr.*		Hope 30
Budlong, F. R., *Jr.*		Slater 11
Buffum, F. H., Jr., *So.*		12 Franklin St.
Buffum, W. P., Jr., *Jr.*		54 College St.
Bugbee, S. R., *Jr.*		41 George St.
Bumpus, H. C., *Fellow Am. Museum of Nat. History*		New York, N. Y.
Bunker, J. W. M., *Jr.*		94 Angell St.
Bunting, E. J., *Sr.*		Maxcy 436
Burbank, P., *Jr.*		65 College St.
Burbank, R. T., *Sr.*		65 College St.
Burge, D. B., *W. Sr.*	*184 Albert Ave.*,	Edgewood
Burgess, R. W., *Jr.*		100 Waterman St.
Burke, H. M., *Fr.*		78 Cypress St.
Burlingame, E. A., *Supt. Grounds and Buildings*		359 Brook St.
Burnham, J. M., *Assistant Librarian*		60 Stewart St.
Burnham, W. H., *Sr.*		65 College St.
Burnside, A. E., *W. So.*	*264 Prospect St.*,	Pawtucket
Burr, H. C., *So.*		Hope 10
Burrage, H. S., *Fellow*		Togus, Me.
Burroughs, R. C., *W. Fr.*	*93 Park Place*,	Pawtucket
Burton, A. I., *W. Jr.*	*1121 Main St.*,	Pawtucket
Bushell, M. K., *W. So.*		617 Hope St.
Bushnell, L. E., *Sr.*		Hope 13
Buss, R., *Jr.*		Hope 26
Butler, N. L., *W. Jr.*		312 Public St.
Butler, W. H., *Jr.*		Hope 23
Butler, W. H., *Sp.*		Phenix
Butterworth, C. F., *Jr.*		University 51
Cady, H. D., *Sp., Instructor*		Warren
Calder, C. T., *Fr.*		3 Benevolent St.
Cameron, H. F., *Jr.*		Hope 35
Cameron, W. C., *So.*		70 Blaisdell St.
Campbell, A. L., *W. Fr.*		43 Moore St.
Campbell, G. H., *W. Fr.*	*160 Warren Ave.*,	East Providence
Campbell, G. H., *Jr.*		Caswell 12
Canfield, J. G., *Sr.*		Slater 1
Cann, S. J., *Gr.*	*23 Walnut St.*,	East Providence

Cargill, I. Z., *W. Sp.*	*12 Elmwood St.*,	No. Attleboro, Mass.
Carlborg, E. M. L., *W. Fr.*		124 Atlantic Ave.
Carmark, L., Jr., *Sp.*		University 40
Carnes, Miss M. A., *Gr.*		281 Williams St.
Carpenter, A. C., *W. Jr.*		Manton
Carpenter, E. S., *Fr.*		Lonsdale
Carpenter, G. W. G., *Sp.*		4 Manning St.
Carret, F. W., *Sr.*		Caswell 7
Carroll, Miss A. S., *Gr.*		131 Tockwotton St.
Carson, C. H., *Sr.*		University 4
Carson, M. H., *So.*		University 4
Case, B. C., *So.*		Hope 48
Case, C. M., *Gr.*		Moses Brown School
Case, Miss M. W., *Gr.*		53 Grove St.
Case, N. S., *Sr.*		100 Waterman St.
Caswell, G. E., *Fr.*		41 George St.
Cate, B. H., *Fr.*		158 Elmwood Ave.
Cate, E. A., *W. Sp.*		158 Elmwood Ave.
Caton, E. F., *So.*	*70 Arnold Ave.*,	Edgewood
Cawley, C. J., *Fr.*		198 Juniper St.
Cawthorne, H. F., *Fr.*		Hope 20
CHACE, A. B., *Chancellor*		324 Angell St.
Chace, A. M., *Jr.*		University 34
CHACE, J., *Trustee*		Valley Falls
Chadwell, O., *So.*		University 52
Chafee, H. S., *Jr.*		Brunonia 8
Chamberlain, A. K., *W. Fr.*	*781 Broad St.*,	Central Falls
Chambers, R. F., *Jr.*		Slater 17
Champlin, M. D., *Jr.*		Slater 17
Chandler, E. L., *Jr.*		100 Waterman St.
Chapin, H. M., *Sr.*		54 College St.
Chaplin, H. P., *Fr.*		Georgetown, Mass.
Chase, L. C., *Fr.*		Plainville, Mass.
Chase, N. G., *Jr.*		100 Waterman St.
Chase, R. D., *Fr.*		University 52
Chesley, J. O., *Fr.*		234 Elmwood Ave.
Chichester, F. I., *Sr.*		Slater 15
Childs, G. M., *W. Sr.*		66 Benefit St.
Chipman, P. L., *Sr.*		Caswell 22
Choquette, L. P. P., *Fr.*		Hope 23
Christie, C. I., *Fr.*		65 College St.
Church, G. E., *Gr.*		43 Adelaide Ave.
Church, J., Jr., *Jr.*		University 43
Church, N. B., Jr., *Fr.*		94 Angell St.

Claflin, A. W., *Assistant*		Rogers Hall
Clampitt, G., *W. Fr.*	*286 Washington St.*,	No. Attleboro, Mass.
Clark, A. C., *Fr.*		University 60
Clark, D. G., *Jr.*		Hope 5
Clark, E. W., *W. Sp.*		167 Arlington Ave.
Clark, Miss G. M., *Gr.*		44 Pitman St.
Clark, H. G., *Sr.*		Lyman Gymnasium
Clark, J. C., *Fr.*		Slater 1
Clark, L. F., *So.*		University 38
Clark, P. F., *Gr.*		167 Arlington Ave.
Clark, T., *Assistant Registrar*		152 Congdon St.
Clarke, B. F., *Professor Emeritus and Trustee*		89 Brown St.
Clarke, R. B., *Sr.*		94 Angell St.
Clarke, R. I., *So.*		Caswell 25
Cleasby, C. S., *Fr.*		Hope 42
Clemence, S. R., *W. Fr.*		167 Harrison St.
Clough, H. D., *Sr.*		University 31
Cobb, H. A., *Sr.*		54 College St.
Coffin, B. G., *W. Sr.*		59 Keene St.
Coffin, H. R., *Fr.*		Hope 31
Coffin, I. H., *Sr.*		Caswell 7
Coffin, Miss L. M., *Gr.*	*815 Hartford Ave.*,	Johnston
Colas, A., *Fr.*		65 College St.
Colby, E., *Trustee*	*Llewellyn Park*,	Orange, N. J.
Colby, E. W., *So.*		Hope 27
Colby, G., *Trustee*	*7 Wall St.*,	New York, N. Y.
Cole, E. R., *W. Sr.*		253 Washington St.
Cole, Miss M. S., *Gr.*		59 Keene St.
Collins, E. L., *So.*		Slater 10
Collins, G. L., *Trustee*		223 Benefit St.
Collins, J. F., *Assistant Professor*		468 Hope St.
Collins, L. R., *Fr.*		University 47
Colman, R. J., *Fr.*		58 College St.
Colmetz, R. A., *Jr.*		118 Rutherglen Ave.
Comstock, A. B., *So.*		University 19
Conant, M. F., *So.*		Caswell 1
Conant, W. G., *So.*		Maxcy 433
Conklin, E. B., *Sr.*		Hope 43
Conley, R. P., *Sp.*		Slater 4
Connell, W. M., *Jr.*	*7 Henry St.*,	Edgewood
Connolly, J. G., *Jr.*	*42 Cleveland St.*,	Pawtucket
Connor, H. R., *Fr.*		Caswell 14
Conover, H. H., *Instructor*		39 Benevolent St.
Conroy, W. M., *Jr.*		University 41

Conyers, H., *So.* 904 Cranston St.
Cook, A. F., *W. So.* Georgiaville
Cook, H. F., *Jr.* University 16
Cooke, L. E., *W. Sp.* 134 Congdon St.
Coolidge, R. A., *W. Fr.* 19 Arch St.
Cooney, J. J. A., *Sr.* Hope 6
Copeland, H., *So.* University 12
Cordery, C. L., *Sr.* 41 George St.
Corp, A. E., *Fr.* 94 Angell St.
Corp, F. J., *W. So.* 24 Everett Ave.
Cosgrove, L. R., *W. So.* 87 Benefit St.
Covell, Mrs. M. E. C., *Assistant Librarian, J. C. B. L.* Warren
Crapo, Miss B. M., *Gr.* 32 Vernon St.
Crapo, L. C., *W. Fr.* 32 Vernon St.
Crawshaw, H. F., *W. Jr.* 121 Whittier Ave.
Crawshaw, J. L., *Fr.* Brunonia 10
Creelman, A. D., *So.* 520 Hope St.
Cristy, A. M., *Jr.* 102 Wayland Ave.
Crocker, L. V., *Fr.* 58 College St.
Crosby, T., *Assistant Professor* Brunonia 7
Cross, E. B., *Gr.* 265 Doyle Ave.
Crossley, M. L., *Sp.* Hope 1
Crowell, A. C., *Associate Professor* 345 Hope St.
Crowell, M., *W. Jr.* *7 Miller St.*, Warren
Cull, J. H., *So.* Hope 3
Curley, R. S., *Gr.* Brunonia 9
Currier, C. H., *Instructor* University 17
Curry, E. J., *Gr.* Hillsgrove
Curtis, H. R., *Jr.* Caswell 11
Curtis, P. C., *Fr.* University 51
Dahlgren, E. H., *W. Fr.* *6 Prospect St.*, Attleboro, Mass.
Dale, N. C., *Gr.* 151 Morris Ave.
Dalton, E. F., *Fr.* Caswell 19
Damon, H. C., *So.* 41 George St.
Damon, L. T., *Professor* 125 Lloyd Ave.
Dane, E. B., *Fr.* 94 Angell St.
Davenport, A. C., *Fr.* Slater 5
Davis, C. A., *Gr.* 1131 Elmwood Ave.
[Davis, N. F.], *Professor* 159 Brown St.
Davis, J. C., *Sp.* *865 Hope St.*, Bristol
Davis, R. J., *Sp.* Swansea, Mass.
Davitt, G. G., *Fr.* Maxcy 429
Dawley, E. P., *Fr.* University 18

Dealey, J. Q., *Professor*		872 Hope St.
Dean, J. D., *Jr.*		Slater 3
Dean, M. E., *W. So.*		66 Benefit St.
Deckard, W. W., *Gr.*	*116 Gladstone St.*,	Arlington
Degnan, K. H., *W. So.*		36 Chester Ave.
Delabarre, E. B., *Professor*		9 Arlington Ave.
Delany, C. C., *W. Jr.*	*32 Garden St.*,	Pawtucket
Dennie, F. E., *Jr.*		Slater 1
Densmore, A. J., *Sr.*		Hope 4
Denton, A. L., *Sr.*		Hope 5
Dexter, R. A., *W. Jr.*	*46 Washington St.*,	Central Falls
Dexter, T. E., *Gr.*	*46 Washington St.*,	Central Falls
Dillon, P. E., *Sr.*		University 50
Diman, M., *W. Jr.*		66 Benefit St.
Dishman, S. B., Jr., *Fr.*		Hope 7
Dixon, J. P., Jr., *Jr.*		Hope 12
Dobler, L. T., *W. So.*		104 Jenkins St.
Dodge, W. P., *Jr.*		4 Manning St.
Dolt, M. L., *Gr., Assistant*		Slater 2
Domincovich, H. A., *Gr.*		Moses Brown School
Donle, E. R., *Fr.*		Hope 11
Donnelly, A. E., *Fr.*		Hope 42
Doty, C. H., *Fr.*		Caswell 28
Doty, F. W., Jr., *Fr.*		Caswell 28
Douglas, W. W., *Trustee*		121 George St.
Douglass, Miss J. M., *Cataloguer*		46 Olive St.
Dove, W. W., *Sp.*		139 Lexington Ave.
Dow, E. A., *Fr.*		Hope 16
Downing, D. F., *Gr.*		West Newton, Mass.
Doyle, Miss S. E., *Advisory Council, W.*		119 Prospect St.
Draper, A. D., *So.*		University 10
Driscoll, J. F., *Fr.*		Maxcy 430
Drowne, F. O., *Fr.*		Hope 5
Dudley, J. E., Jr., *Fr.*		Hope 46
Dunn, A. W., *Sr.*		4 Manning St.
Dwyer, W. J., *So.*		90 Newark St.
Easton, H. E., *Fr.*		Hope 34
Eaton, E. M., *W. Jr.*		66 Benefit St.
Ede, H. R., *Jr.*		Brunonia 1
Edgecomb, F. A., *Sr.*		Hope 9
Edmundson, H. B., *Jr.*		Johnston
Edwards, J., *Assistant, Ladd Observatory*		210 Doyle Ave.
Edwards, S. O., *Trustee*		181 Lloyd Ave.

Ehle, L. E., *Fr.*	Caswell 13
Ehle, V., *Sr.*	Caswell 13
Eldredge, J. H., *Fr.*	Caswell 6
Elliot, L. S., *Jr.*	41 George St.
Ellis, G. M., *W. Sr.*	66 Benefit St.
Ellis, W. W., *Gr.*	327 Washington St.
Englander, H., *Gr., Assistant*	181 Reynolds Ave.
English, J. M., *Trustee*	Newton Centre, Mass.
Ervin, J., Jr., *Fr.*	Hope 15
Evans, A. R., *Sr.*	Caswell 4
Evans, M. K., *W. Sp.*	173 Waterman St.
Evans, N. M., *W. Sr.*	66 Benefit St.
Everett, K., *W. Sr.*	219 Lowell Ave.
Everett, P. E., *Jr.*	University 59
Everett, W. G., *Professor*	116 Governor St.
Everson, E. W., *Jr.*	21 Hempstead St.
Fales, J. R., *So.*	Slater 3
Farnsworth, A., *So.*	University 48
Farnum, Miss M., *Gr.*	112 Bridgham St.
Farnum, R. B., *So.*	132 Bridgham St.
Farrington, J., *Sp.*	77 Vinton St.
Farwell, A. P., *So.*	32 Carleton St.
Faunce, W. H. P., *President*	180 Hope St.
Fellman, L., *Fr.*	Brunonia 3
Fellows, W. T., *Gr.*	Usquepaugh
Fenn, M. E., *Sr.*	University 18
Fenner, R. E., *So.*	Caswell 26
Field, R. F., *Gr., Assistant*	25 Wilson St.
Fillmore, M. G., *Fr.*	Caswell 33
Fitz, E. S., *Fr.*	Hope 45
Fleckhamer, A. L., *Fr.*	157 Jewett St.
Flemming, B. M., *Fr.*	Lonsdale
Fletcher, J. E., Jr., *Fr.*	Caswell 3
Fogwell, J. P., *So.*	Caswell 18
Follansbee, C. LaF., *Fr.*	Maxcy 426
Foote, J. A., *Jr.*	Brunonia 10
Forrist, J. H., *So.*	163 Reynolds Ave.
Foster, F. A., *W. Jr*	87 Williams St.
Foster, R. L., *W. Sr.*	87 Williams St.
Fowler, H. E., *Jr.*	University 26
Fowler, H. T., *Professor*	127 Lloyd Ave.
Fowler, L. M., *W. Sr.*	20 Bridgham St.
Francis, H. B., *Fr.*	University 46

Franklin, C. M., *Sp.*	*6 Saunders St.*,	Pawtucket
Frazer, C. R., *Gr.*		Auburn, Ala.
Freeman, W. B., *So.*		University 18
Frohock, E. P., *So.*		University 13
Frost, B. R., *Sr.*		Brunonia 2
Frost, H. M., *So.*		Caswell 24
Frost, M. G., *W. Jr.*		301 Knight St.
Fujita, K., *Gr.*		298 Governor St.
Fuller, E., *Sp.*		49 Waterman St.
Fuller, R. J., *Gr.*		No. Attleboro, Mass.
Fulton, F. T., *Instructor*		169 Angell St.
Furlong, M. C., *W. Fr.*		125 Governor St.
Gager, W. M., *Sr.*		Rogers Hall
Gallagher, M. H., *Fr.*		157 Williams St.
Gallup, D. T., *Gr.*		Old Mystic, Ct.
Gammell, R. I., *Trustee*		50 South Main St.
Gannon, W. E., *So.*		Caswell 20
Gardner, F. A., *So.*		Slater 5
Gardner, H. B., *Professor*		54 Stimson Ave.
Gardner, Miss I. M., *Gr.*		69 Barnes St.
Gardner, L., *Fr.*		Caswell 2
Gardner, R. N., *Fr.*		Caswell 2
Gaskill, F. A., *Fellow*	*116 Lincoln St.*,	Worcester, Mass.
Gerber, S., *W. Fr.*		66 Benefit St.
Gifford, G. H., *Fr.*		Caswell 14
Giles, W. C., *Fr.*		Caswell 18
Gillespie, L. J., *Sr.*		Caswell 26
Gindele, H. E., *W. So.*	*80 Spring St.*,	Pawtucket
Gleason, F. R., *Fr.*		Caswell 6
Gleason, R. R., *Sr.*		Hope 24
Glynn, E. J., *Fr.*		Maxcy 431
Goddard, R. H. I., *Fellow*		50 South Main St.
Goff, D., *Fr.*		Caswell 27
Goff, I. N., Jr., *Sr.*		41 George St.
Goodspeed, T. H., *Jr.*		Brunonia 8
Goodwin, C. L., *Gr.*		Lyndonville, Vt.
Goodwin, W. C., *So.*		Hope 12
Goodwin, W. E., *So.*		Maxcy 323
Gorham, F. P., *Associate Professor*		151 Meeting St.
Gorman, A., *Jr.*		82 Broad St.
Gorman, J. L., *So.*		65 College St.
Gorman, M. A., *W. Sr.*		16 Comstock Ave.
Gormly, M., Jr., *Fr.*		Maxcy 321

Gould, R. K., *So.*		University 45
Green, A., *Fr.*		Hope 37
Green, T. F., *Trustee*		15 Westminster St.
Greenblatt, H., *W. Sp.*		137 Brownell St.
Greene, A. W., *Jr.*		94 Angell St.
Greene, C. A., *Sr.*		54 College St.
Greene, E. A., *Sp.*		100 Waterman St.
Greene, J. F., *Assistant Professor*		Slater 2
Greene, W. W., *So.*		Hope 16
Greenlaw, F. M., *Gr.*	*29 Mann Ave.*,	Newport
Gregg, M. L., *Gr.*		1284 Elmwood Ave.
Gregory, Miss E. H., *Gr.*		29 Ann St.
Griffith, C. H., *Sr.*		Hope 37
Grose, H. B., Jr., *Instructor*		Caswell 30
Guild, F. T., *Registrar*		9 Oriole Ave.
Guile, M. E., *W. Sp.*		31 Burnett St.
Gurney, K. C., *W. Sp.*		27 East Manning St.
Gyllenberg, I. A., *W. Jr.*		78 Mitchell St.
Hadley, H. J. P., *Sr.*		65 College St.
Hadley, P. B., *Gr.*		Rhode Island Hall
Hager, E. R., *Jr.*		700 Park Ave.
Hagerman, B. H., *Fr.*		Slater 11
Hague, E. M., *W. Jr.*		88 Benefit St.
Hall, J. A., *Sr.*		Hope 19
Hall, M. I., *W. Sr.*		31 Pocasset Ave.
Hall, M. W., *W. Jr.*	*High Service Ave.*,	No. Providence
Ham, A. M., *So.*		65 College St.
Hampton, A. J., *Fr.*		Hope 11
Hardy, C. S., *Jr.*		Caswell 16
Hardy, S. W. S., *W. Sp.*		298 Broadway
Harkness, A., *Jr.*		54 College St.
Harkness, A. G., *Professor*		7 Cooke St.
Harkness, S. B., *Instructor*		92 Williams St.
Harrigan, D. J., *Jr.*		University 36
Harrington, W. G., *Fr.*		64 Providence St.
Harris, W. E., *Fr.*		University 59
Harris, W. H., *Jr.*		Maxcy 319
Harson, J. L., *Gr.*		96 Carrington Ave.
Hartigan, J. P., *So.*		Brunonia 3
Harvey, E. S. E., *W. Sr.*		113 E. Manning St.
Haskins, H. H., *Fr.*		University 46
Hastie, W. E., *Fr.*		Maxcy 321
Hastings, W. T., *Instructor*		11½ John St.

Hatch, F. E., *W. Sr.*	5 Harrison St.
Hatch, M. A., *W. Fr.*	Riverside
Hathaway, C. M., *Sr.*	Maxcy 434
Havens, C. E., *Jr.*	Hope 26
Hazard, J. O., *Sr.*	Hope 1
Hazard, R. G., *Fellow*	Peace Dale
Hefner, C. E., *W. So.*	125 Governor St.
Hempel, E. C., *Sr.*	Hope 6
Henderson, G. H., *Jr.*	Hope 19
Henderson, W. B., *So.*	University 18
Henin, B. L. A., *Sp., Instructor*	University 21
Hennessey, J. C. A., *So.*	4 Manning St.
Henry, H. O., *Gr.*	547 Elmwood Ave.
Hernan, E. J., *Sp.*	Maxcy 316
Hersey, Miss H. E., *Gr.*	148 Broad St.
Hewitt, S., *W. Fr.*	*78 Peck St.*, Attleboro, Mass.
Heydon, W. D., *Fr.*	Slater 6
Hibbs, D. L., *Gr.*	Maxcy 427
Hicken, G. R., *So.*	University 36
High, H. G., *Jr.*	12 Hammond St.
High, J. F., *Fr.*	Maxcy 315
High, L. S., *Sr., Gr.*	12 Hammond St.
Hildreth, A. F., *W. Fr.*	97 Manning St.
Hill, G. R., *Sp.*	Caswell 28
Hill, J. E., *Professor*	86 Taber Ave.
Hill, Miss S. E., *Secretary to Registrar*	82 Olney St.
Hills, A. W., *So.*	65 College St.
Himes, L. W., *Sr.*	University 57
Hinckley, J. E., *Fr.*	Caswell 8
Hodgson, J. S., *Fr.*	University 19
Holden, A. A., *Gr.*	*94 Blackstone St.*, Woonsocket
Holden, Mrs. M. B., *Gr.*	*94 Blackstone St.*, Woonsocket
Holder, R. E., *Gr.*	*1708 Third Ave.*, Louisville, Ky.
Hollen, E. J., *Jr.*	Hope 22
Holman, S. M., Jr., *Fr.*	Hope 34
Holt, N. E., *So.*	Slater 20
Holt, H. M., *W. Sr.*	*146 Sheldon St.*, Elmwood Station
Honiss, J. R., *Sr.*	4 Manning St.
Hopkins, Miss B. E., *Gr.*	75 Harrison St.
Horr, G. E., *Fellow*	Newton Centre, Mass.
Horton, E. M., *So.*	Hope 4
Horton, E. S., *So.*	100 Waterman St.
Howard, Mrs. E. L., *Gr.; Head, Slater Memorial Homestead*	66 Benefit St.

Howard, F. N., *Sr.*		4 Manning St.
Howard, J. D., *So.*		Caswell 1
Howarth, J. M., *Fr.*		26 Congdon St.
Howe, H. R., *Fr.*		41 George St.
Howe, P. D., *Fr.*		Bristol
Howe, S. J.. *Sr.*		100 Waterman St.
Howland, P. B., *So.*		Slater 15
Hoyt, C., *Trustee*	*36 Wall St.*,	New York, N. Y.
Hubbard, C. C., *Sr.*		University 22
Hubbard, H. G., *Fr.*		University 22
Hughes, C. E., *Trustee*	*56 Broadway*,	New York, N.Y.
Hughes, C. E., Jr., *Jr.*		100 Waterman St.
Huling, R. G., *Trustee*	*10 Hurlburt St.*,	Cambridge, Mass.
Hunkins, C. H., *Instructor*		101 Waterman St.
Hunkins, C. J., *Sr., Gr.*		University 47
Hunt, C. E., *Sr.*		Caswell 34
Hunt, H. B., *Sr.*		Hope 28
Hunt, M. B., *Sr.*		100 Waterman St.
Huntington, H. B., *Assistant Professor*		153 Power St.
Hutchins, R. E., *So.*		Hope 16
Huxford, G. T., *Jr.*		Hope 26
Ide, S. A., *W. Sr.*		401 Benefit St.
Ingalls, W. C., Jr., *Jr., Secretary to President*		Caswell 34
Inomata, S., *Fr.*		341 Thayer St.
Jackson, D., *Sp.*		Slater 12
Jackson, E. F., *Fr.*		Hope 28
Jackson, H. K., *Jr.*		Slater 4
Jacobs, W. B., *Professor*		310 Olney St.
Jager, H. A., *Sr., Gr.*		462 Prairie Ave.
Jarvis, S. T., *Fr.*		Caswell 33
Jeffris, M. R., *So.*		4 Manning St.
Jencks, F. M., *Fr.*		West Barrington
Jenney, W. H., *Fr.*		Hope 32
Jennings, A. J., *Trustee*	*Granite Block*,	Fall River, Mass.
Jennings, L. C., *Sr.*		Slater 8
Johnson, A. B., *Associate Professor*	*168 Walnut St.*,	East Providence
Johnson, C. R., *Jr.*		Caswell 11
Johnson, M. K., *W. Sr.*		217 Regent Ave.
Johnson, W. C., *So.*		Hope 39
Johnston, C. S., *Fr.*		Caswell 36
Jonas, A., *W. Jr.*		7 Barnes St.
Jonas, J. B. E., *Assistant Professor*		7 Barnes St.
Jones, G. H., *Fr.*		Maxcy 429

Jones, F. W., *Sp.* 20 Medway St.
Jones, R. B., *Assistant* Caswell 30
Jordan, H. P. B., *Fr.* Brunonia 5
Jordan, O. W., *Fr.* Hope 32
Joslin, C. F., *Fr.* 65 College St.
Josselyn, L. W., *Sr., Second Assist. Librarian* University 19
Judson, E., *Fellow* *53 Washington Sq., South*, New York, N. Y.

Kalberg, S. M., *So.* University 27
Keen, W. W., *Fellow* *1729 Chestnut St*, Philadelphia, Pa.
Keenan, B. A., *Jr.* *109 Cottage St.*, Pawtucket
Keenan, J. B., *So.* University 44
Keily, J. V., *Fr.* 53 Cypress St.
Keith, A. H., *W. Sr.* 66 Benefit St.
Kellen, W. V., *Trustee* *202 Commonwealth Ave*, Boston, Mass.
Kelley, G. H., *Sp.* 286 Fountain St.
Kelley, H. M., *Gr., Assistant* Brunonia 4
Kelley, W. E., *Fr.* Maxcy 425
Kenerson, W. H., *Associate Professor* 100 Morris Ave.
Kennedy, W. A., *Instructor* 31 Forest St.
Kent, E. B., *Fr.* 41 George St.
Kent, W., *So.* 54 College St.
Kenyon, A. E., *Fr.* Hope 23
Keyes, F. G., *Gr., Assistant* Hope 33
Kiernan, A., *Fr.* 1 Falcon St.
Kiernan, M., *W. Sp.* 59 Charles St.
Kindelan, J. B., *Fr.* Caswell 19
King, C. G., Jr., *Trustee* *774 Fairmount St.*, Cleveland, O.
King, C. M., *Fr.* Hope 20
King, H. M., *Trustee* 8 Cushing St.
King, Miss L. S., *Dean, W.; Assistant Professor* 8 Cushing St.
Kirk, W., *Assistant Professor* 9 John St.
Kirley, A. J., *Jr.* Hope 44
Knight, A. F., Jr., *Fr.* Caswell 6
Knight, Miss A. S., *Advisory Council, W.* 366 Broadway
Knight, I. W., Jr., *Fr.* 1310 Elmwood Ave.
Knights, E. L., *W. Fr.* Riverside
Kohler, H. L., *Fr.* 65 College St.
Koopman, H. L., *Librarian* 57 East Manning St.
Krause, G. F., *Gr.* Lebanon, Pa.
Krause, M., *So.* University 51
Krieble, V. K., *Assistant* Rogers Hall

LaBeaume, E. I., *Sp.* 54 College St.
Lake, A. H., *Sr.* University 44

Lake, A. L., *W. Sr.*		66 Benefit St.
Lake, H. B., *Jr.*		Hope 4
Lakey, F. E., *Gr.*		14 Kenwood St.
L'Amoureux, H. D., *So.*		University 13
Lane, H. B., *Jr.*		University 55
Langdon, C., *Professor*		86 Upton Ave.
Langdon, T. B., *Fr.*		Slater 18
Lapham, J. R., *Jr.*		509 Park Ave.
Lapham, O., *Trustee*		183 Waterman St.
Laraway, I. L., *W. Jr.*		228 Webster Ave.
Larrabee, L. L., *Jr.*		100 Waterman St.
Lasker, J. H., *Jr.*		537 No. Main St.
Latham, B. F., *Jr.*		Hope 14
Learned, W. S., *Gr.*		Moses Brown School
Lederer, S. M., *Fr.*		Hope 44
Lee, E. D., *W. Jr.*		57 Parkis Ave.
Leonard, W. A., *Sp.*		No. Dighton, Mass.
Lester, M. B., *W. Fr.*		125 Governor St.
Lever, J. H., *Sr.*		263 Benefit St.
Levere, G. V. G., *W. Fr.*		Bristol
Lincoln, W. E., *Trustee*	*815 Amberson Ave.*,	Pittsburgh, Pa.
Littlefield, I., *Jr.*		102 Bowen St.
Low, C. C., *Sr.*		Caswell 23
Luther, W. B., *Fr.*		Caswell 15
Lyall, H. W., *Sr.*		100 Waterman St.
Lynn, W. H., *So.*		Slater 1
McAuliffe, Miss R. G., *Gr.*		184 Elmgrove Ave.
McCarthy, E. H., *Jr.*		188 Lippitt St.
McCarthy, F. F., *So.*		University 50
McCarthy, W. H., *So.*		University 50
McCausland, E. E., *W. Jr.*		233 Medway St.
McCoy, L. A., *Jr.*	*46 Gerald St.*,	Pawtucket
McCoy, O. R., *Jr.*		Maxcy 322
McDaniels, G. D., *So.*		Maxcy 319
McDonald, J. C., *Sr.*		94 Angell St.
MacDonald, W., *Professor*		450 Brook St.
McDonald, W. L., *Sr.*		Hope 2
MacDougald, W. W., *Fr.*		Hope 31
McGough, R. E., *So.*		Slater 6
McGuire, J. T. C., *Sp.*		Caswell 9
MacGurgan, W. E., *Sr.*		University 50
McGurty, G. H., *So.*		Maxcy 425
McIntosh, H. S., *So.*		247 Doyle Ave.

McKay, J. R., *Fr.* Caswell 36
Mackenzie, J. B., *Sr.* 65 College St.
Mackie, M. R., *W. Fr.* 43 Woonasquatucket
MacLaughlin, J. F., *Fr.* 26 Amity St. [Ave.
McLean, D., *Sp.* Slater 12
McMahon, M. C., *W. Fr.* *18 Englewood Ave.*, Pawtucket
MacMinn, G. R., *Instructor* 92 Williams St.
McNerney, L., *W. Jr.* *206 Park St.*, Attleboro, Mass.
McPhee, P. D., *So.* Hope 18
Magoon, E. W., *W. Fr.* 65 Messer St.
Maile, A. S., *W. So.* *119 Massasoit Ave.*, Edgewood
Manatt, J. I., *Professor* 59 Charles Field St.
Manchester, E. N., *Reference Librarian, Keeper of Graduate Records* 66 Meeting St.
Manning, H. P., *Associate Professor* 258 Medway St.
Mansur, F. L., *So.* University 13
Manter, E. W., *Sp.* Maxcy 323
Marble, G. M., *W. Jr.* *21 Holden St.*, Attleboro, Mass.
Marston, E. J., *Fr.* Caswell 28
Marston, E. L., *Trustee* *24 Broad St.*, New York, N. Y.
Marston, H. S., *Sr.* 54 College St.
Martin, Miss A. R., *Gr.* Warren
Martin, J. C., *Sr.* Caswell 11
Marvel, F. W., *Professor* 281 Olney St.
Maryott, A. J., *Sr.* Hope 6
Mason, E. H., Jr., *So.* Slater 11
Mason, E. W., *Trustee* 149 Waterman St.
Mason, F. F., *Sr.* Hope 21
Mason, M., *W. Fr.* 46 Arch St.
Mathieu, Miss B. C., *Gr.* *379 Broad St.*, Central Falls
Matteson, G. A., *University Physician* 276 Benefit St.
Mattuck, J. A., *Gr.* 41 Angell St.
Maxson, C. C., *Fr.* Brunonia 13
Mayer, E. B., *Jr.* Slater 4
Mayhew, J. W., *Jr.* 4 Manning St.
Mayo, B. L., *W. Jr.* 254 Washington St.
Mead, A. D., *Professor* 283 Wayland Ave.
Meader, L. H., Jr., *Jr.* Hope 22
Meckel, R. J. Y., *Fr.* Hope 44
Medbury, C. E., *W. Sr.* 219 Lowell Ave.
Meiklejohn, A., *Dean of the University, Professor* 30 Cushing St.
Mercer, K., *So.* 54 College St.
Mercer, J. M., *Jr.* Slater 7
Meredith, M. M., *Fr.* Hope 7

Merritt, E. L., *Fr.*	Hope 47
Metcalf, S. O., *Trustee*	36 Exchange Place
Mielatz, S. W., *W. Fr.*	125 Governor St.
Miller, B. D., *So.*	Hope 25
Miller, R. H., *Gr.*	28 George St.
Miller, T., *Sr.*	41 George St.
Miller, W. D., *Jr.*	4 Manning St.
Minnerly, H. E., *Sr.*	Slater 14
Mitchell, F. M., *Gr.*	Wickford
Mitchell, J. A., *Sp.*	Harrisville
Mitchell, P. H., *Instructor*	157 Williams St.
Mitchell, R. M., *Instructor*	164 Wayland Ave.
Mitchell, W. E. B., *Jr.*	Brunonia 1
Mitchell, W. P., *Jr.*	Hope 15
Moffett, E. E., *Jr.*	Saylesville
Moffitt, J. B., *W. Fr.*	56 E. Manning St.
Montz, J. McG., *Fr.*	University 19
Morgan, M. J., *W. Jr.*	184 Howell St.
Morrill, W. D., *Sp.*	94 Angell St.
Morris, E. M., *So.*	University 31
Morrisey, J. H., Jr., *So.*	University 16
Morrison, E., *W. So.*	319 Broad St.
Morse, A. S., *Assistant Professor*	North Scituate
Morton, C. M., *W. So.*	135 Superior St.
Moseley, F. R., *Fr.*	Caswell 32
Mott, M. L., *W. Fr.*	21 Portland St.
Mudge, C. S., *Fr.*	32 Mt. Vernon St.
Muir, A. W., *So.*	Hope 37
Muir, H. E., *Fr.*	Maxcy 435
Muir, W. E., *Sp.*	University 28
Mulcahy, F. L., *Fr.*	University 50
Munro, W. H., *Professor*	115 Butler Ave.
Munson, R. L., *So.*	Maxcy 318
Murnan, G. F., *Fr.*	Maxcy 316
Murphy, R. C., *Fr.*	R. I. Hall
Nash, W. R., *Jr.*	University 27
Nason, R. C., *Sr.*	Brunonia 2
Nelson, W. J., *Gr.*	University 48
Neufeld, L. A., *Fr.*	Maxcy 432
Neves, J. S., *Fr.*	University 41
Nichols, Miss E. A., *Gr.*	86 Glenham St.
Nichols, M. B., *W. Jr.*	29 Portland St.
Nichols, W. W., *Fr.*	Brunonia 10

Nicholson, H. S., *W. Fr.*	*8 Stuart St.*,	Pawtucket
Nicholson, N. B., *W. So.*		24 Camp St.
Nolan, C. A., *Fr.*		158 Charles St.
Norton, W. C., *Jr.*		University 25
Nourse, C. L., *Jr.*		Caswell 16
Nulty, H. F., *W. Sp.*	*11 Harris Ave.*,	Woonsocket
Nuttall, H., *Sr.*		University 40
Nutter, L. H., *Sr.*		University 25
Nye, S. T., *Sp.*		Natick
Oakes, W. C., *So.*		Hope 15
Oates, J. H., *Fr.*		217 Washington St.
Obear, G. B., *Gr.*		303 Benefit St.
O'Brien, M. L., *W. Jr.*	*Mulberry St.*,	Warren
O'Connor, A. J., *So.*		University 50
O'Connor, J. J., *Sr.*		University 50
O'Hara, J. L., *Fr.*		31 Corinth St.
Oldfield, H. L., *So.*		Hope 45
Olsen, A. J., Jr., *Sr.*		28 Grand St.
O'Neil, H. B., *So.*		Maxcy 436
O'Neil, J. T., *Fr.*		58 College St
Ormes, H. A., *Fr.*		29 Taber Ave.
Ormsbee, R. C., *Sr.*		54 College St.
Oslin, J. E., *So.*		University 31
Paddock, S. D., *So.*		Hope 17
Paine, Mrs. H. W., *Instructor, W.*		1 Congdon St.
Paine, S. S., *Sr.*		100 Waterman St.
Palmer, A., *Fr.*		University 30
Palmer, A. Def., *Associate Professor*		71 Elmgrove Ave.
Palmer, E. E., *Sr.*		Slater 8 [Office
Palmer, H. R., *Gr.*		Providence Journal
Palmer, R. M., *So.*		University 30
Palmer, W. B., *Fr.*		Maxcy 318
Pantaenius, H. A., *Fr.*		University 52
Parker, G. W., *So.*		41 George St.
Parks, S. R., *Fr.*	*239 East St.*,	Pawtucket
Partington, W. H., *Fr.*		Hope 5
Patterson, I. W., *Jr.*		94 Angell St.
Paul, T. L., *Jr.*		Hope 21
Payson, B. A., *W. Fr.*		66 Benefit St.
Peace, H. T., *Sr.*		University 54
Peck, W. T., *Trustee*		48 Princeton Ave.
Peck, Miss H. E., *Gr.*		Peace Dale
Peckham, E. W., *Sr.*		Hope 21

Peede, T. B., *Gr.* — *112 Clay St.*, Central Falls
Peirce, Miss K. U., *Gr.* — 125 E. Manning St.
Perkins, J., *Demonstrator* — 106 Waterman St.
Perry, B. F., *Fr.* — Maxcy 314
Perry, C. I., *W. Fr.* — 37 Somerset St.
Perry, C. W., *Sr.* — University 44
Peterson, A. N., *So.* — 55 Gordon Ave.
Pettingill, I. W., *Fr.* — Hope 3
Phelps, H. J., *Fr.* — Maxcy 430
Phetteplace, T. M., *Assistant Professor* — 1612 Broad St.
Phillips, C. B., *W. Sr.* — 345 Potter Ave.
Phinney, H. T., *So.* — 41 George St.
Pierce, F. H., *Sr.* — Hope 28
Pilling, L. G., *Fr.* — University 22
Pinkham, R. S., *Sr.* — Brunonia 10
Piper, H. J., *Gr.* — *101 Colonial Ave.*, Eden Park
Plummer, C. S., Jr., *Sr.* — Slater 20
Poland, A. H., *Jr.* — 54 College St.
Poland, W. C., *Professor* — 53 Lloyd Ave.
Porter, H. K., *Fellow* — Pittsburgh, Pa.
Post, C. A., *So.* — Slater 12
[Potter, A. K.], *Associate Professor* — 220 Waterman St.
Potter, A. M., *W. Sr.* — 145 Chester Ave.
Potter, W. C., *So.* — Hope 22
Presbrey, A. E., *W. Sr.* — 51 Niagara St.
Prescott, J. H., *So.* — 175 Ontario St.
Price, J., *Jr.* — Hope 17
Pryor, J. D., *Sr.* — 4 Manning St.
Purdie, D. J., *Fr.* — Maxcy 321
Pyle, S. D., Jr., *So.* — 100 Waterman St.
Quigley, T. H., *Fr.* — Maxcy 322
Rackle, O. W., *Assistant* — 94 Angell St.
Radeke, Mrs. G., *Advisory Council, W.* — 92 Prospect St.
Raia, J. E., *Fr.* — Caswell 34
Randall, O. E., *Professor* — 140 Larch St.
Randlett, W. G., *Fr.* — 94 Angell St.
Rankin, E. J., *Fr.* — 94 Angell St.
Raquet, C. R., *So.* — Caswell 20
Rausch, F. M., *W. So.* — 66 Benefit St.
Raybold, H. L., *W. So.* — 26 Lillian Ave.
Raymond, W. P., *Jr.* — Slater 1
Read, N. W., *W. Fr.* — *552 Pawtucket Ave.*, Pawtucket
Reckling, R. W., *So.* — Maxcy 320

Regnier, A. E., *Sp.*		Brunonia 3
Richards, C., *So.*		29 Francis St.
Richards, C. K., *Fr.*		Hope 2
Richards, T. M., *So.*		94 Angell St.
Richards, M. A., *W. So.*	*34 Peck St.*,	Attleboro, Mass.
Richardson, D. V., *Sr.*		Caswell 12
Richardson, G. C., *Fr.*		Slater 20
Richardson, O. P., Jr., *Fr.*		Caswell 17
Richardson, R. G. D., *Assistant Professor*		39 Benevolent St.
Richmond, L., *Jr.*		4 Manning St.
Ricker, M. S., *Fr.*		Caswell 10
Riley, E. F., *W. Jr.*		69 Barnes St.
Riley, G. F. A., *Sr.*		University 40
Roalf, T. H., *Fr.*		Maxcy 431
Robbins, H. W., *Sr., Gr.*		Caswell 23
Roberts, A., *Jr.*		Maxcy 313
Robinson, C. C., *W. Jr.*		27 Beacon Ave.
Robinson, Miss E. L., *Gr.*		17 Irving Ave.
Robinson, J. F., *W. Fr.*		232 Brown St.
Robinson, M., *Sp.*		689 Eddy St.
Robinson, R. S., *Fr.*		Maxcy 426
Rockwood, H. W., *Fr.*	*170 Japonica St.*,	Pawtucket
Roelke, H. E., *Fr.*		Brunonia 10
Roper, F. E., *Fr.*		Maxcy 322
Rose, F. L., *W. So.*	*175 Bay View Ave.*,	Edgewood
Ross, E. C., *Gr.*	*313 High St.*,	Pawtucket
Ross, Miss S. G., *Cataloguer*		117 Howell St.
Ross, W. C., *Jr.*		10 Hopkins St.
Ross, W. N., *Gr.*		14 Rhode Island Ave.
Round, G. A., *So.*		41 George St.
Round, L. A., *So.*		Hope 3
Rowe, I. S., *So.*		Brunonia 10
Ryder, B. F., *Sr.*		Caswell 22
Saake, J. A., *Fr.*		University 41
Sackett, J. T., *W. Jr.*		37 Arlington Ave.
Sadofsky, A. N., *Fr.*		Maxcy 432
Sammis, N. L., *Sr.*		54 College St.
Sampson, M. M., *W. Jr.*		125 Governor St.
Sanborn, A. C., *So.*		Hope 41
Sanders, A. M., *W. Jr.*		27 Phillips St.
Sanders, G., *Fr.*		Brunonia 5
Schiek, B. T., *Sr.*		Hope 41
Schoonmaker, R. V., *Sp.*		Moses Brown School

Schur, M. E., *Sr.*		Maxcy 428
Schutz, Miss L., *Gr.*		31 Daboll St.
Scott, I. D., *W. Jr.*		435 Angell St.
Seabury, A. G., *Sr.*		41 George St.
Seabury, A. O., *Jr.*		41 George St.
Searle, Miss H. E., *Gr.*		Barrington Center
Searls, E. D., *Gr.*		256 Doyle Ave.
Sears, B. E., *W. So.*		10 Verndale Ave.
Seaton, J. W., *Fr.*		Hope 40
Seidler, V. B., *Sp.*		4 Manning St.
Selleck, H. B., *Jr.*		Maxcy 313
Semonoff, J., *Fr.*		21 Robinson St.
Semonoff, L., *Sp.*		21 Robinson St.
Seymour, W. Y., *Sr.*		University 54
Shaeffer, E. J., *So.*		University 57
Shanahan, W. H., *Fr.*		17 Arlington Ave.
Shapiro, Miss S. I., *Gr.*		186 Dudley St.
Sharpe, H. D., *Trustee*		130 Angell St.
Shaw, A. E., *Jr.*		94 Angell St.
Shaw, P. A., *Sr.*		Hope 29
Shaw, R. G., *Fr.*		17 Arlington Ave.
Shay, H. W., *Jr.*		University 16
Shea, J. J., *So.*		Maxcy 425
Sheldon, I. R., *So.*		Maxcy 322
Shepardson, C. W., *Sr.*		University 43
Shepherd, L. A., *Fr.*		Maxcy 324
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Sherwood, H. M., *Jr.*		94 Angell St.
Shields, W. T., *Jr.*		158 Douglas Ave.
Shinn, F. G., *Sr.*		Maxcy 433
Shippee, L. B., *Gr.*		14 Larch St.
Shires, P., *Gr.*		Slater 1
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Simpson, W., *Assistant Cataloguer*		117 Howell St.
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Sisson, R. E., *Fr.*		458 Hope St.
Skelding, S. M., *Fr.*		Slater 15
Skillings, R. F., *Fr.*		Caswell 12
Slack, C. R., *Fr.*		Brunonia 5
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Smith, D. W., *Gr., Assistant*	Hope 8
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Smith, W. A., *Jr.*	Hope 33
Smith, W. H., *Fr.*	Central Falls
Snow, I. C., *Fr.*	Caswell 25
Snow, T. A., *Fr.*	Slater 17
Snyder, M. Y., *Fr.*	Hope 11
Spicer, E. S., *So.*	Slater 14
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Sterling, A. H., *Fr.*	Maxcy 434
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Stetson, H. T., *Sr.*	Hope 30
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Stillwell, M. B., *W. Jr.*	87 Benefit St.
Stiness, J. H., *Fellow*	210 Governor St.
Stitt, H. J. B., *Jr.*	Hope 9
Stone, D. L., *Jr.*	Hope 17
Stone, M. M., *W. So.*	312 Public St.
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Straffin, H. A., *So.*	University 4
Strickler, G. F., *Jr.*	Slater 3
Stucker, G. C., *Fr.*	University 22
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Sturdy, H. K., Jr., *Sr.*	Slater 6
Sturgis, H. G., *Jr.*	Slater 14
Suffa, M. C., *W. So.*	19 Camp St.
Sullivan, J. J., *Jr.*	Hope 14
Sullivan, R. J. B., *Jr.*	Slater 2

Sundlun, A., *Fr.*	University 12
Swaffield, H. A., *So.*	Hope 37
Swain, L. E., *Sr.*	94 Angell St.
Swanson, G. F., *Fr.*	73 Harrison St.
Sweeney, L. T., *W. Fr.*	122 Doyle Ave.
Sweet, A. I., *W. So.*	124 Chapin Ave.
Sweet, A. W., *Fr.*	57 Comstock Ave.
Sweet, W. S., *So.*	65 College St.
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Sweetland, H. A., *Jr.*	Slater 20
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Symmes, R. T., *So.*	Hope 5
Taber, H. A., *So.*	Slater 10
Tandy, E. W., *So.*	94 Angell St.
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Tanner, H. D., *Sp.*	41 George St.
Tattersall, H., *Fr.*	76 Benefit St.
Taylor, F. C., *Jr.*	41 George St.
Taylor, G. D., *Sr.*	Slater 17
Taylor, R. S., *Fr.*	Hope 47
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Thacher, H. B., *So.*	University 57
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Thompson, G., *W. Fr.*	152 Pitman St.
Thompson, H. E., *Fr.*	Hope 1
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Towne, R., *Gr.*	*11 Geldard St.*, Valley Falls
Townsend, G. A., *Sr.*	100 Waterman St.
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Tucker, L., *W. So.*	6 Villa Ave.
Tukesbury, H. M., *So.*	Brunonia 14
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Upton, W., *Professor*	156 Congdon St.

Van Kirk, W., *Fr.*	127 Angell St.
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Walker, F. A., *Sr.*	Hope 43
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Wall, E. W., *So.*	12 Arnold St.
Wall, G. A., *Sp.*	11 Chestnut St.
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Wallis, M. K., *W. Sp.*	188 Meeting St.
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Ward, C. H., *Jr.*	University 33
Ward, L. F., *Professor*	Caswell 35
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Watson, E. M., *Gr.*	R. I. Hall
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Weed, R. C., *Jr.*	University 27
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Welch, H. G., *W. Sr.*	*23 Wood St.*, Warren
Wessel, M. J., *Fr.*	Maxcy 315
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West, W. C., *Sr.*	Maxcy 427
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Weston, G. F., Jr., *Jr.*	Hope 33
Whalen, J. G., *Sr.*	65 College St.
Wheeler, C. E., *Jr.*	Hope 8
Wheeler, H. L., *So.*	University 19
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Whitenack, R. C., *Gr.*	Baroda, India
Whitmarsh, R. H., *Jr.*	Brunonia 5
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Whitney, H. P., *So.*	Slater 8
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Williams, N. H., *Jr.*		Hope 10
Wilmarth, R. H., *So.*		Caswell 17
Wilmot, J., *Sr.*		Hope 42
Wilmot, S., *Jr.*		16 Elgin St.
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Winslow, S. S., *Sr.*		University 43
Winslow, W. V., *Fr.*		Caswell 9
Winsor, H. D., *Jr.*		60 Hamilton St.
Winsor, Miss L. A., *Gr.*		132 Lowell Ave.
Witherow, J. T., *Fr.*	*17 Patt St.*,	Pawtucket
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Wood, C. M., *So.*		University 54
Wood, I. S., *W. So.*		137 Carpenter St.
Wood, M. P., *W. Fr.*		66 Benefit St.
Woodbury, N. E., *W. Fr.*		152 Reynolds Ave.
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Woods, J. C. B., *Trustee*		62 Prospect St.
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Worthington, H. P., *Fr.*		94 Angell St.
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Zainee, I. F., *Sp.*	62 Benefit St.
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PLAN OF THE PRINCIPAL
GROUNDS AND BUILDINGS
OF
BROWN UNIVERSITY

Sayles Memorial Hall (1881), gift of William Francis Sayles: University Chapel, lecture hall, portrait collection, great organ given by Lucian Sharpe, lecture rooms, seminary rooms and libraries.

Wilson Hall (1891), gift of George Francis Wilson: physical laboratory, psychological laboratory, lecture rooms.

John Carter Brown Library (1904), given to the University by the Trustees under the provisions of the will of John Nicholas Brown: library of rare Americana.

John Nicholas Brown Gate (1904), gift of Mrs. John Nicholas Brown.

Maxcy Hall (1895): dormitory, lecture rooms, seminary rooms, botanical laboratory, herbarium.

Lyman Gymnasium (1891), gift of Daniel Wanton Lyman; with Colgate Hoyt Swimming Pool (1903), gift of Colgate Hoyt.

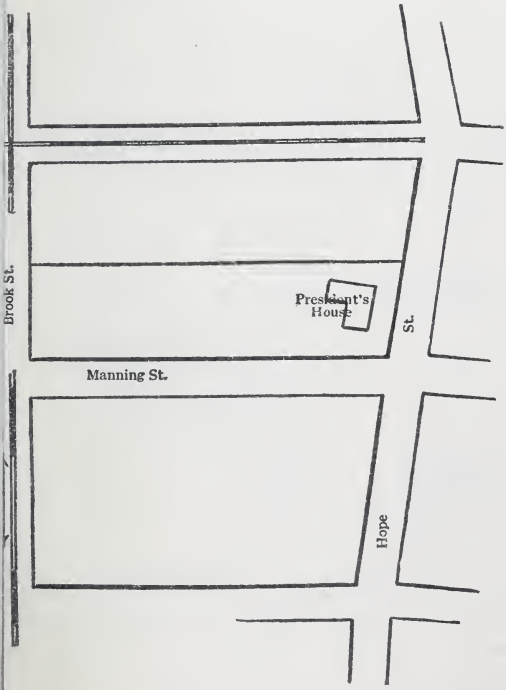
Engineering Building (1903): laboratories and lecture rooms of the departments of Mechanics and Mechanical Drawing and of Mechanical and Civil Engineering.

Caswell Hall (1903): dormitory.

President's House (1901).

Pembroke Hall (1897), built by the Rhode Island Society for the Collegiate Education of Women: recitation building of the Women's College.

Sayles Gymnasium (1906), gift of Frank Arthur Sayles: gymnasium of the Women's College.



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